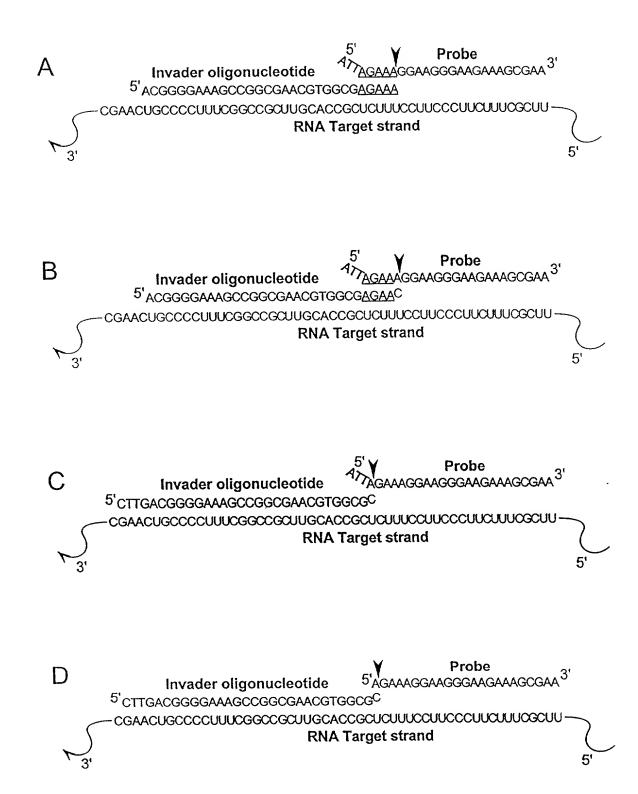


FIGURE 1



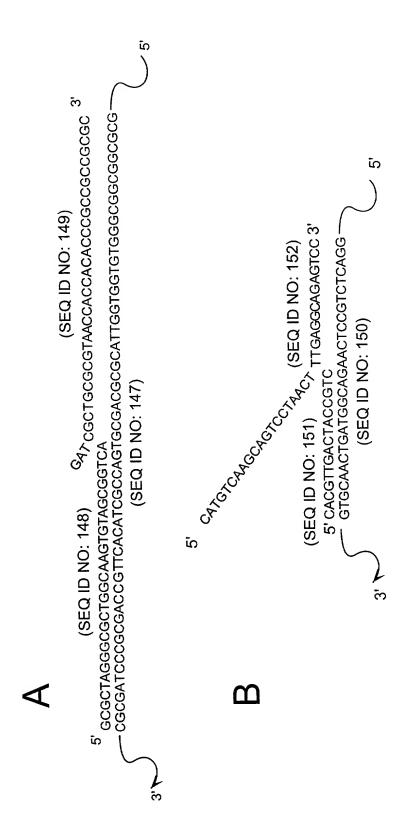
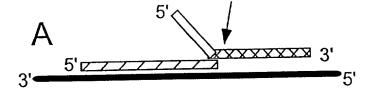


FIGURE 3



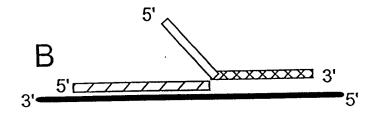


FIGURE 4

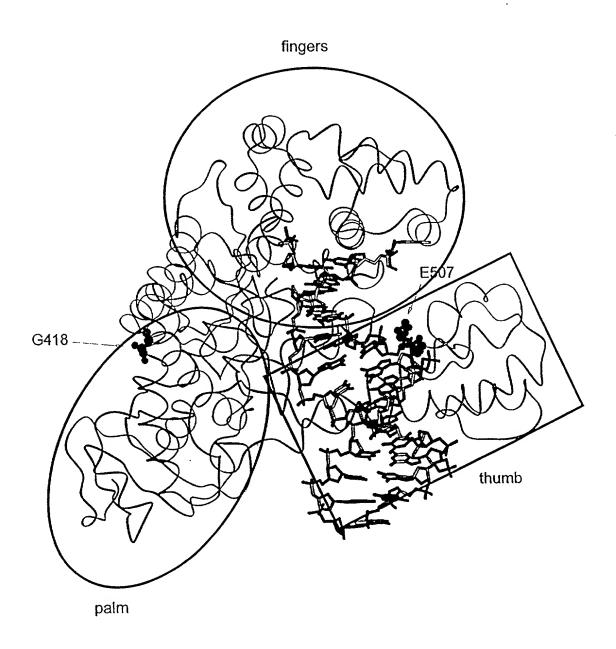
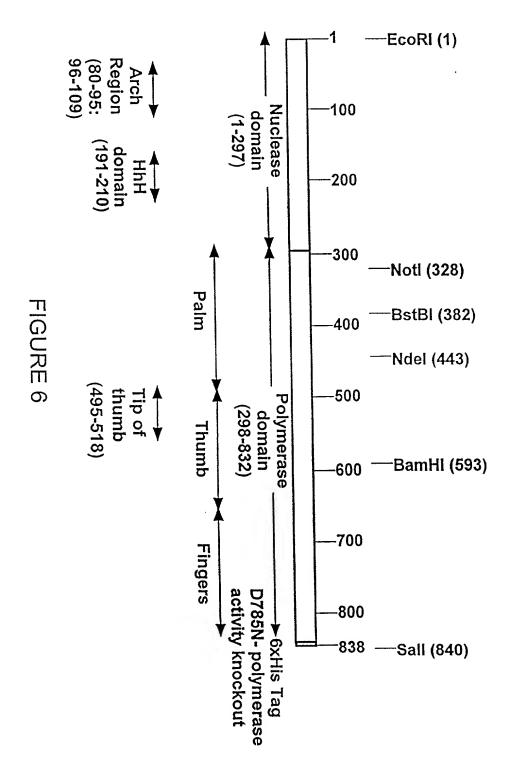


FIGURE 5



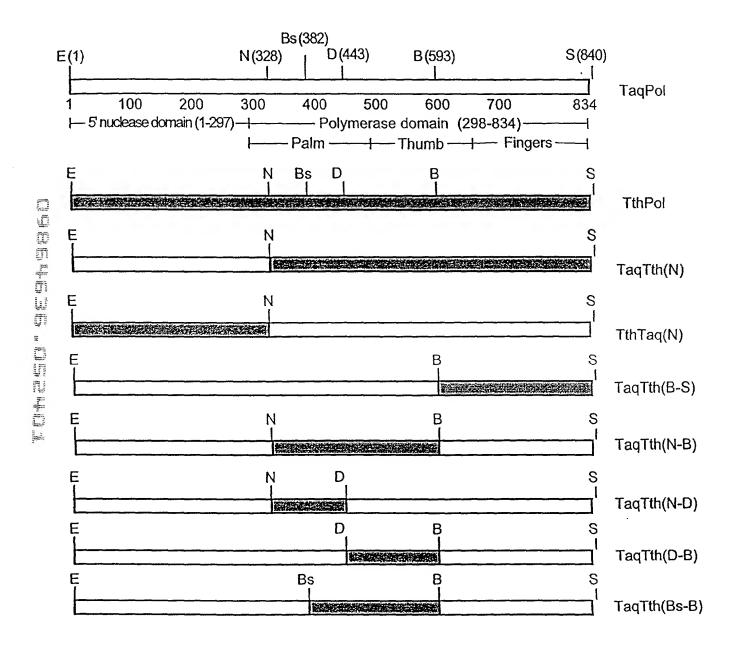


FIGURE 7

FIGURE 8A

MAJORITY	ESEQ IDNO:156	MAJORITY ESEQ IDNO:156] AT GXX G G G G T G G C T T T G G G G G G G G G	
DNAPTAO DNAPTFL DNAPTTH	[SEQ ID NO:15 [SEQ ID NO:15 [SEQ ID NO:15	ESEQ ID NO:153] A 6 6 6 6	70 67 70
	MAJORITY	A G G G G G G C T T G G G G G C T G A G C G A C C A G C G G G G G G G G G	
	DNAPTAO DNAPTEL DNAPTTH	GA	140 137 140
	MAJORITY	C G C C G A G G G C C C C G G G G G G G	
	DNAPTAO DNAPTFL DNAPTTH	A	207 204 210
	MAJORITY	GCCCCCTCCTT CCGCCACGAGGCCTACGAGGCCTACAAGGCGGGGCGCCCCCCCC	
	DNAPTAO DNAPTFL DNAPTTH	6A666666666	277 274 280
	MAJORITY	GCGGGGGGGCT GGT GAAGGAGGT GGT GGACCT GCT GGGGGTT GCGCGCCT CGAGGT CCCCGGGCTA	•
	DNAPTAO DNAPTFL DNAPTTH	A. G. T. G. G. T. T. T. T. A. G. T. A.	347 344 350

TCHEST SESHORE

MAJORITY DNAPTAO	ESEG ID NO:153	ESEU ID NO:153]	417
DNAPTEL DNAPTTH	LSEU ID NO:154 ESEU ID NO:155 MAJORITY	ESECTIONO:1541	420
	DNAPTAO DNAPTEL DNAPTTH	T AAA T G. G. G G. G	487 484 490
	MAJORITY	T CA G C G C G C G C G T T T G G G A G A G T A G G C C C G G G G G G G G G G G G G G	
	DNAPTAO DNAPTEL DNAPTTH	G. G	557 554 560
	MAJORITY	GGGGGAGCCCT CCGAGAGGT CCCCGGGGT CAAGGGCGAT CGGGGAGAGGCGGCCCCCCCCAGAGGT CCTCXAG	
	DNAPTAO DNAPTFL DNAPTTH	66A6TA6666	627 624 630
	MAJORITY	GAGTGGGGGGGCCTGGAAAAGGTGGTGAAGGTGGAGGGGGTGAAGCCGGG··· CXTGGGGGAGAGA	
	DNAPTAO DNAPTFL DNAPTTH	GGTTTGGATGG	694 691 700

TOPESCEENED

HAJORITY	/ ESEQ IDNO:150	MAJORITY ESEQ IDNO:156] T GCAGGGGGGGAGAT GGAXGAGGT GAXGGT GT GGTGGGGT XT CCCAGGT GCGGAGGTGGGGGGGGGGGGGGGGGGGGGG	
DNAPTAO DNAPTFL DNAPTTH	ESED ID NO:15 ESED ID NO:15 ESED ID NO:15	ESEQ ID NO:153] T	764 761 770
	MAJORITY	GGT GGA CTT CGC CGAA GX GG GG GG GG CG GG GG GG GG GG TTA GG GG CG TTT CT GG AGG GG CT GGA GG CTTT	
	DNAPTAO DNAPTEL DNAPTTH		834 831 840
	MAJORITY	GOCAGECT CCT CCAGGAGT T GGGCCT CCT GGAGGCCCCAAGGCCCT GGAGGGGCCCCCT GGGCCCCCCT	
	DNAPTAO DNAPTFL DNAPTTH	A	904 901 910
	MAJORITY	CGGAAGGGGCCTTCGTGGGCTTTGTCCTTTCCCCCCCCGAGCCCATGTGGGGCCCGAGCTTCTGGCCCTGGC	
	DNAPTAO DNAPTFL DNAPTTH	T. TT	974 971 980
	MAJORITY	GGC C G C G G G G G G G G G G G G G G G	•
	DNAPTAO DNAPTFL DNAPTTH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1044 1041 1050

TINGERESD OF THE OFFI

MAJORITY ESED IDNO:156] CGGGGXCT GGT GGGGA DNAPTAD ESED ID NO:153] 6T DNAPTEL ESED ID NO:154] 6 6	ESECTION NO:1551 6	DNAPTAL	MAJORITY GGGGGAGTGGAGGGAGGGAGGGGGGGGGGCCCTCCTXTGGGAGGGGTCTTGCXGAAGGTXXXGGAG	DNAPTELT	MAJORITY CGCCTTGAGGGGGGGGGGGGTGCTTTGGCTTTACCAGGGGGGGG	А. G	MAJORITY CCCACATGGAGGCCAGGGGGTXCGGCTGGACGTGGCCTACCTCCAGGCCCTXTCCCTGGAGGTGGCGGA	DNAPTAG
ESEG IBNO:156 ESEG IB NO:15 ESEG IB NO:15	ESECTION OCITS ESECTION NOCITS	MAJUKIT DNAPTAO DNAPTFL DNAPTTH	MAJORITY	DRAPTAO DNAPTFL DNAPTTH	MAJORITY	DNAPTAO DNAPTFL DNAPTTH	MAJORITY	DNAPTAO

FIGURE 8E

MAJORITY	/ [SEQ IDNO:156	ESEQ IDNO:156] GGAGAT CCGCCGCGT CGAGGAGGAGGT CTT CCGCCT GGCGGGCGACCCTT CAACCT CAACT CCGGGGAC	
DNAPTAO DNAPTFL DNAPTTH	ESED ID NO:15 ESED ID NO:15 ESED ID NO:15	ESEQ ID NO:153]66	1464 1461 1470
	MAJORITY	CAGET GGAAAGGGT GCT TT GAGGAGGT XGGGCT T GCGGCCAT CGGCAAGAGGGAGAGAGAGAGAGGAGAG	
	DNAPTAO DNAPTFL DNAPTTH	6. 6. 6. 7	1534 1531 1540
	MAJORITY	GCT CCA CCA GCG CC CC C C C C C C C C C C C	
	DNAPTAO DNAPTFL DNAPTTH	G. G	1604 1601 1610
	MAJORITY	CCGGGAGCT CACCAACCT CAAGAACACCT ACAT XGACCCCCT GCCXGXCCT CGT CCT CCACCCAGGAGGGGC	
	DNAPTAO DNAPTEL DNAPTTH	G. G. A A	1674 1671 1680
	MAJORITY	GOCCT CCACACCCCCTT CAACCAGGCCCACCCCACGCCAGGCTTAGTAGCT CCGACCCAACCT GC	
	DNAPTAO DNAPTEL DNAPTTH		1744 1741 1750

156] A GA A GA T C C C C C C C C C C C C C C C C C C	5] A GAACAT C C C C G T C C G G C A 3]	GAGGGCXGT GGGCGCGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1814 1811 1820 1824 1884 1881
	DNAPTTH	AT COGGET CIT COAGGGGGGGGGGGGGAT COACACCCAGACCGCCAGCT GGAT GIT CGGCGTCCCCCGG	
	DNAPTAO DNAPTFL DNAPTTH	6	1954 1951 1960
	MAJORITY	AGGCCGTGGACCCCCTGATGCGCGGGGGGCCCAAGACGATCAACTTCGGGGGTCCTCTACGGCATGTCCGC	
	DNAPTAO DNAPTFL DNAPTTH	A. 66. A	2024 2021 2030
	MAJORITY	CCACCGCCT CT CCCAGGAGGTT GCCAT CCCCT ACGAGGGGGGGGGG	
	DNAPTAO DNAPTFL DNAPTTH	TA. G T T CCA	2094 2091 2100

FIGURE 8G In the part of the second of the s

AGA		=	6 2234 2231 2240	0 1 0 0	2304 1.1 2301 2310	ງງງ	2374 2371 2380	 	2444 GAG 2441 2450
UN 10PITY FORD INNO: 1561 DRETT CCCCAAGGT GCGCCT GCATT GAGAGCCCT GCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG		RITY CCCTCTTCGGCGCGCGCGCTACGTGCCCGACCTCAACGCCGGGTGAAGAGGCGTGCGGGGGGGG	6 T A 6 6 6 6	GCGCAT GGCCTT CAACAT GCCCGT C CAGGGCACCGCCGCCGACCT CAT GAAGCT GGCCAT GGT GAA	TAU	INITY TICCCCCCCCCCAGGAATGCCCCCACCATGCTCCTXCAGGTCCACCACCACCTCCTCCTCCACCCC		RITY CGAAAGAGGGGGGGGGGGGGGGGGGTTTGGCCAAGGAGGTCATGGAGGGGGGTCTATCCCCTGGCGG	. A A
LEED IDING		MAJORITY	DNAPTAO DNAPTFL DNAPTTH	MAJORITY	DNAPTAO DNAPTFL DNAPTTH	MAJORITY	DNAPTAO DNAPTFL DNAPTTH	MAJORITY	DNAPTAO DNAPTFL DNAPTTH
VIION AU	DNAPTAQ DNAPTFL DNAPTTR								

2499 2496 2505

FIGURE 9A

FIGURE 9B

MAJORITY ESEO ID NO:159	AVLALREGLDLXPGDDPMLLAYLLDPSNTTPEGVARRYGGEWTEDAGERALLSERLFXNL	418
ESEQ 1D NO:157] ESEQ 1D NO:158] ESEQ 1D NO:13	S A OT. K.	417 420
MAJORITY	RLEGEERLLWLYXEVEKPLSRVLAHME ATGVRLDVAYLQALSLEVAEE!RRLEEEVFRLAGHPFNLNSRD	
TAO PRO TFL PRO TTH PRO	K	488 487 490
MAJORITY	OLERVLFDELGLPAI GKTEKTGKRSTSAAVLEALREAHPI VEKI LOYRELTKLKNTYI DPLPXLVHPRTG	
TAO PRO TFL PRO TTH PRO	S D. 1	558 557 560
MAJORITY	RL HT RF NOT AT AT GRL SSSDP NL ONI PVRT PLGORI RRAF VAE EGWXL VAL DY SOI EL RVLAHL SGDENL	
TAO PRO TFL PRO TTH PRO		628 627 630
MAJORITY	I RVF QE GRDI HT QT A SWMF GV P PE AV D P L MR RAAKT I NF GV L Y G MS A H R L S Q E L A I P Y E E AV A F I E R Y F Q	٠
TAO PRO TFL PRO TTH PRO	B	698 697 700

FIGURE 9C

100	767 770	ç	831 835
MAJORITY ESEO ID NO:159] SF PKVRAWI EKTLEEGRRRGYVETLFGRRRYVPDL NARVKSVREAAERMAF NMPVOGTAADLMKLAMVKL	TAO PRO [SEO ID NO:157] R. TFL PRO [SEO ID NO:158]. Y R R R R	MAJORITY FPRLXEMGARMLLO	TAQ PRO E

るたっ Cleavage site Downstream (signal) probe 人口のWnstream (signal) probe 人口のWnstream (signal) probe 人口のWnstream (signal) probe

5'-agggagagagCcaacrggaccgaaggcc 3'-..gggucccucuuccguugaccuggcuuccgcgaacaccucuuccucaaguaucgacccgag..-5' Upstream probe

3'-GGGTCCCTCTTCCGTTGACCTGGCTTCCGCGAACACCTCTTCCTCAAGTATCG-5'

IL-6 DNA target strand

FIGURE 10

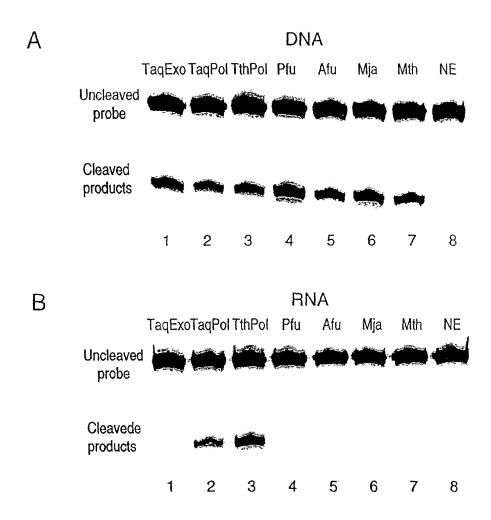


FIGURE 11

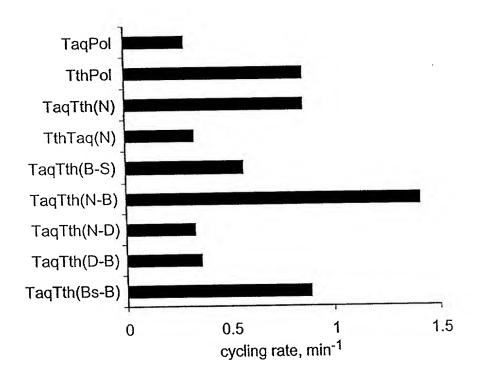


FIGURE 12

DPSNTTPEGVARRYGGEWTEBAGERAALSERLEGNINGRLEGEERLIMLYREVERPLSEVLAHMEATGVREDVAYLGALS DPSNTTPEGVARRYGGEWTEDAAERALLSERLEENLLERLEGEEKLIMLYHEVEKPLSEVLAHMEATGVREDVAYLEALS 470 480 500 500 510 520 530 54(LEVAEELEMEVFRLEGERVLFDEL GLPAIGKTEKTSKRSTSAAVLEALREAHPIVEKILQURELTK LELAEELEMEVFRLAGHPFNLNSRDQLERVLFDEL KLPALGKTEKTGKRSTSAAVLEALREAHPIVEKILQURELTK Ndel (443) 440 BamHI (593) 550 590 | LKSTYIDPLPMLIHPRTGRLHTRFNQTATATGRLSSSDPNLQNIPVRTPLGQRILKNTYVDPLPMLVHPRTGRLHTRFNQTATATGRLSSSDPNLQNIPVRTPLGQRI 420 ++ ++ 410 BstB1 (382) 1 TaqPol 2 TthPol 1 TagPol 2 TthPol 1 TagPol 2 TthPol

FIGURE 13

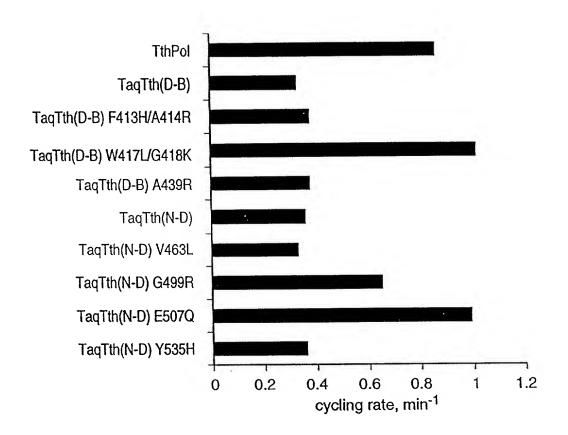


FIGURE 14

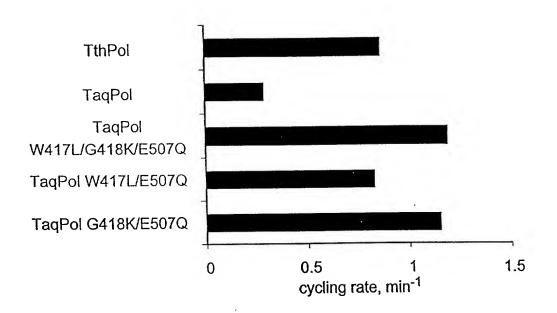


FIGURE 15

% Fl-labeled dUTP incorporated RNA, p(A) or DNA, p(dA) Template Polymerase Nuclease Domain Domain 14.8 (1.00) 5.8 (1.00) Tth 0.8 (0.14) 15.0 (1.01) Taq 4.88 (0.84) 12.9 (0.87) TaqTth(N) 13.3 (0.90) 0.58(0.10)TaqTth(N-B) 6.60 (1.14) 14.9 (1.01) TaqTth(B-S) 0.42 (0.07) 12.6 (0.85) Taq(W417L/G418K/E507Q)

Polymerase Activity Assays

FIGURE 16

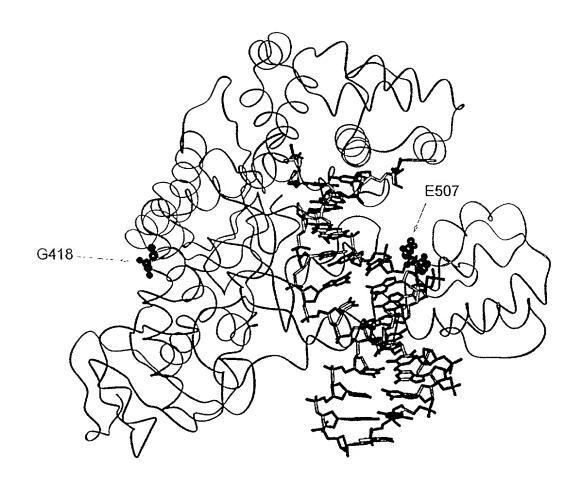


FIGURE 17

26/145-

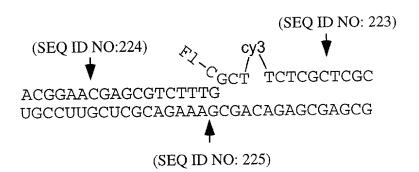


FIGURE 18A

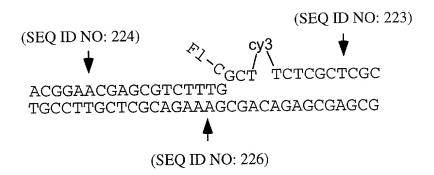


FIGURE 18B

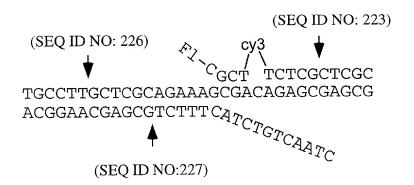


FIGURE 18C

(SEQ ID NO:223)

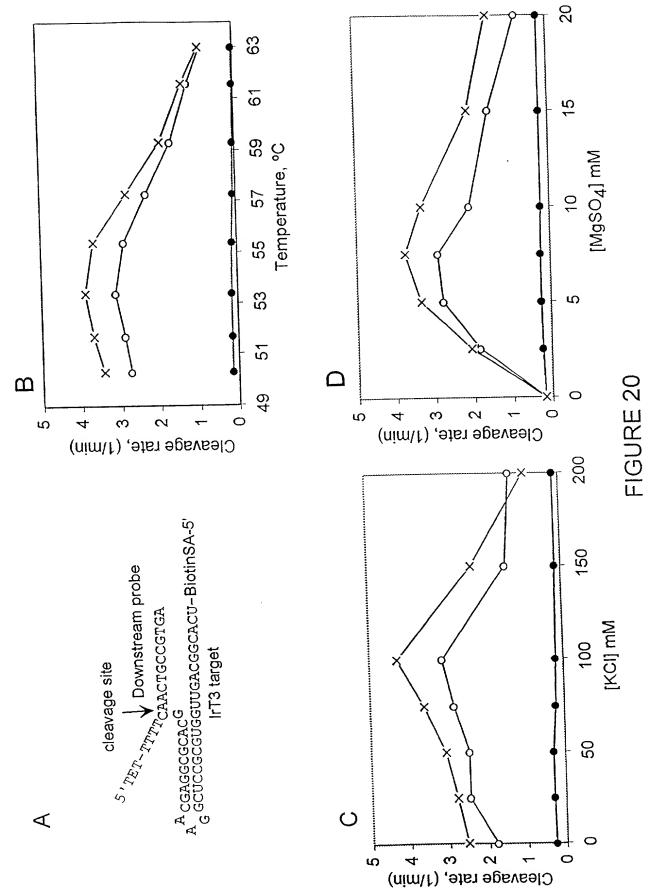
CGCT TCTCGCTCGC

TGCCTTGCTCGCAGAAAGCGACAGAGCGAGCG

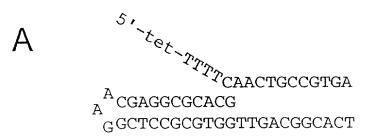
(SEQ ID NO: 226)

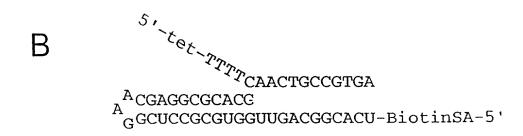
FIGURE 18D

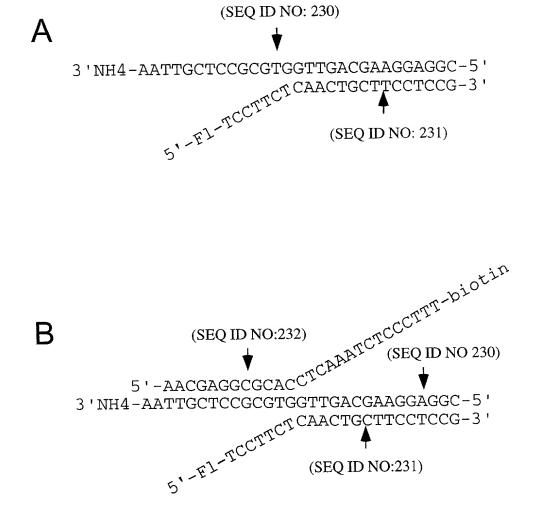
Nuclease Polymerase Domain Domain		D / (4/ 1) /D	La Dada
EcoRI NotI BstBI Ndel BamHI	IL-6 RNA Invader Assay	er Rate (1/min) (Re Synthetic r25mer Invader Assay	Synthetic IrT1 <u>Invader Assay</u>
	0.86 (1.00)	0.29 (1.00)	1.85 (1.00)
TthPol Е ŅВsРВ Ş	(1.00)	, ,	,
	0.29	0.03	0.05
TaqPol	(0.32)	(0.10)	(0.03)
1 aq1 01			
	0.86	0.45	3.36
TaqTth(N) TthTaq(N)	(1.00)	(1.56)	(1.81)
	0.33	0.03	0.00
TthTaq(N)	(0.38)	(0.10)	(0.00)
	0.57	0.07	0.15
	(0.67)	(0.23)	(80.0)
TaqTth(B-S) TthTaq(B-S)	0.70	0.30	1.70
TthTaq(B-S)	(0.79)	(1.05)	(0.92)
	1.41	0.40	3.22
TaqTth(N-B)	(1.59)	(1.38)	(1.74)
	0.22	0.05	0.05
TthTaq(N-B)	(0.25)	(0.18)	(0.03)
	0.22	0.10	0.06
TaqTth(N-Bs)	(0.25)	(0.11)	(0.03)
	0.89	0.18	0.71
TaqTth(Bs-B)	(1.04)	(0.63)	(0.38)
	0.33	80.0	0.18
TaqTth(N-D)	(0.38)	(0.29)	(0.10)
	0.32	0.16	0.16
	(0.42)	(0.54)	(0.09)
TaqTth(D-B)	IGURE 19		31/145

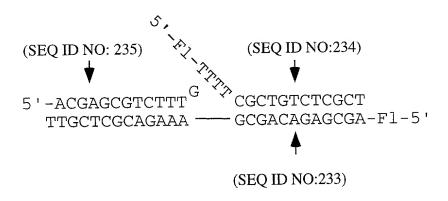


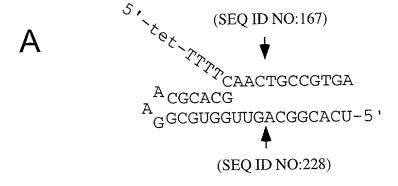
32/145

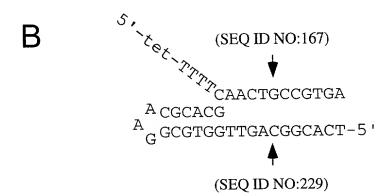


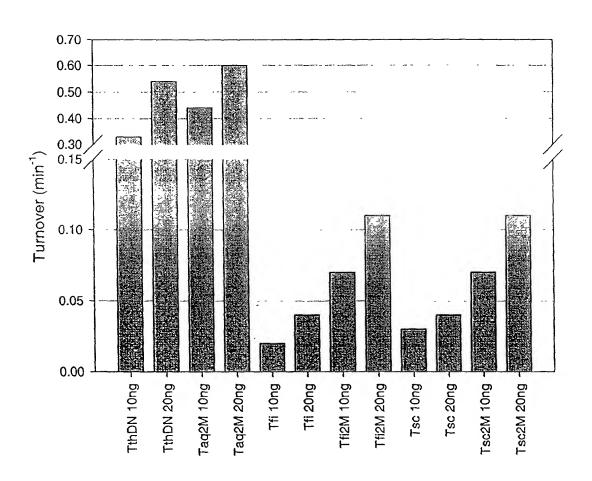


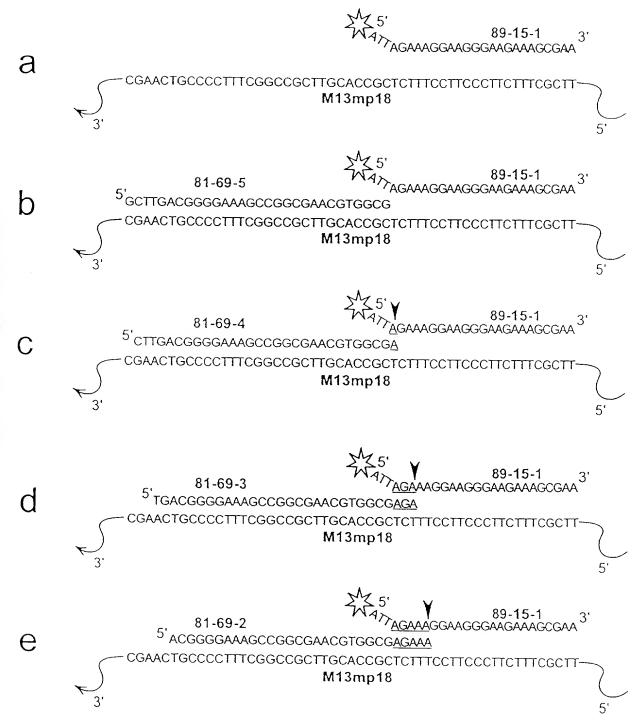












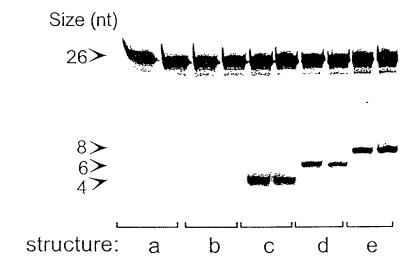
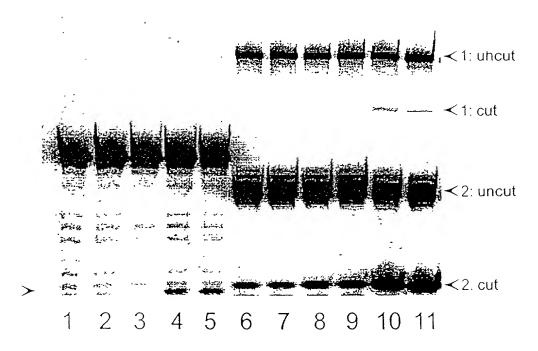
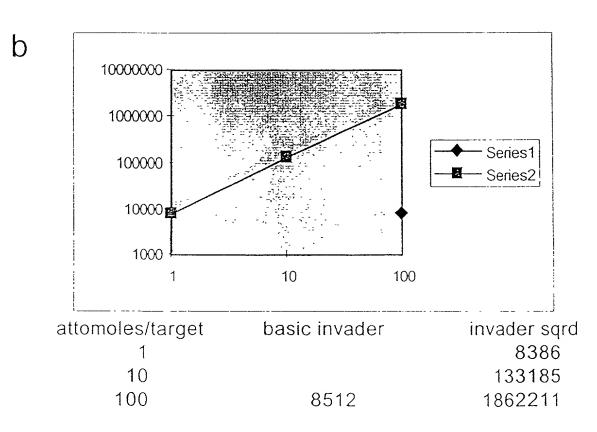
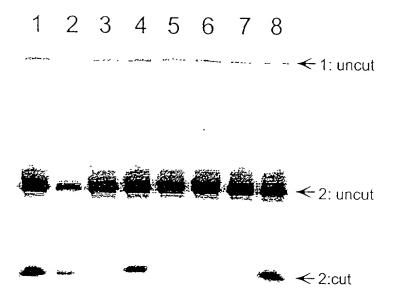


FIGURE 28



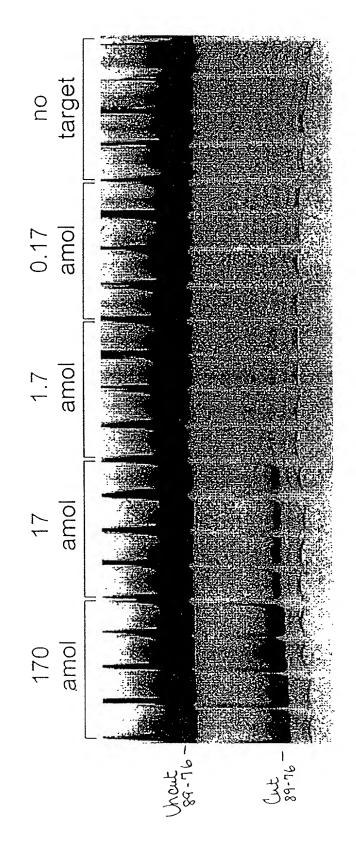


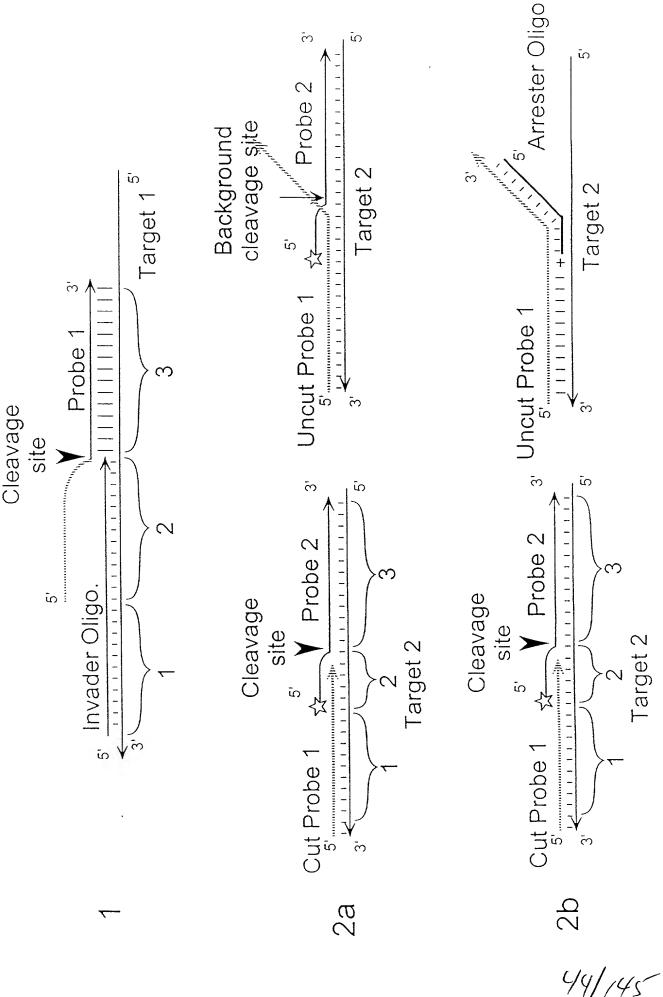


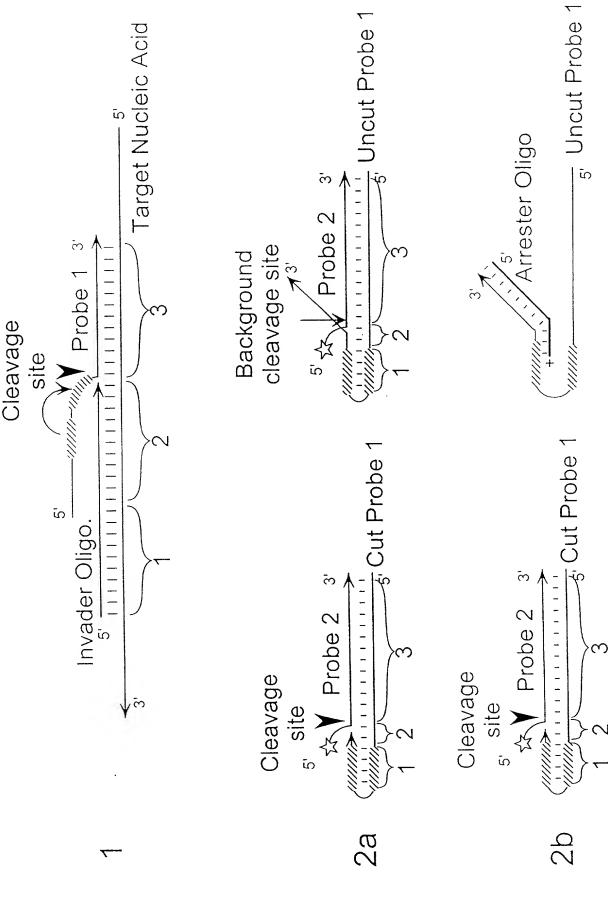


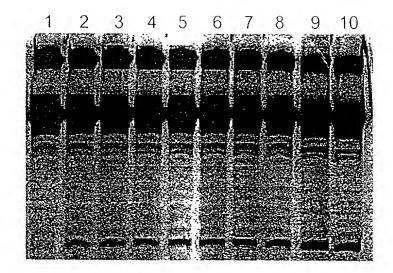
3057 Cleavage site 89-76 SANY ★ 89-76 HCMV Target Sequence 89-44 3110

FIGURE 31

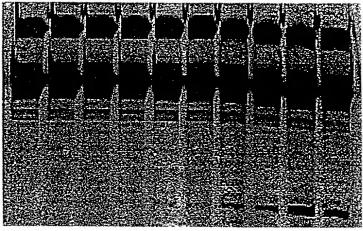




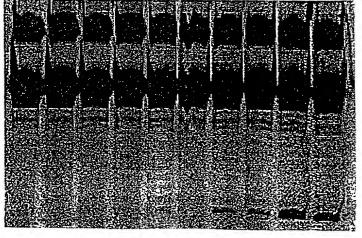




11 12 13 14 15 16 17 18 19 20



21 22 23 24 25 26 27 28 29 30



C

В

Α

FIGURE 35A

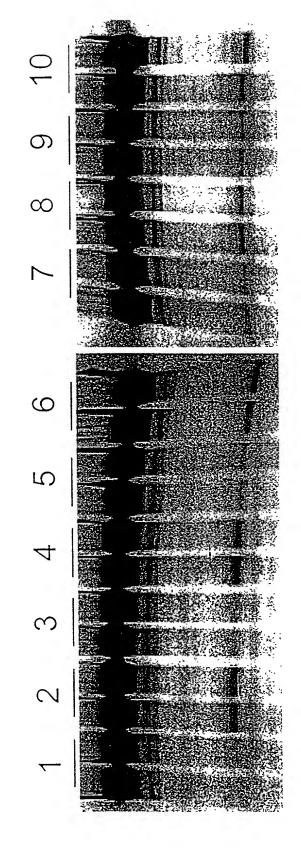


FIGURE 35B

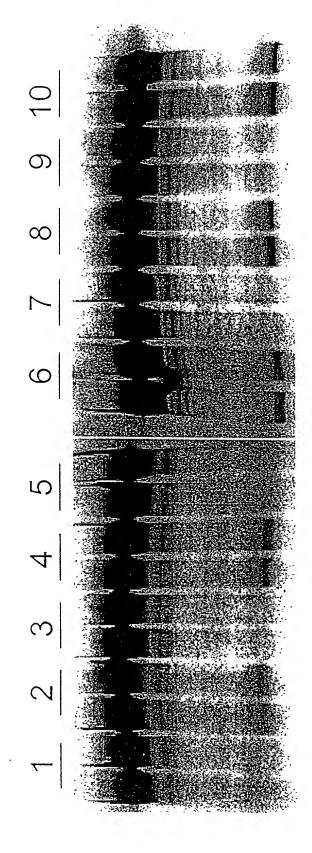


FIGURE 35C

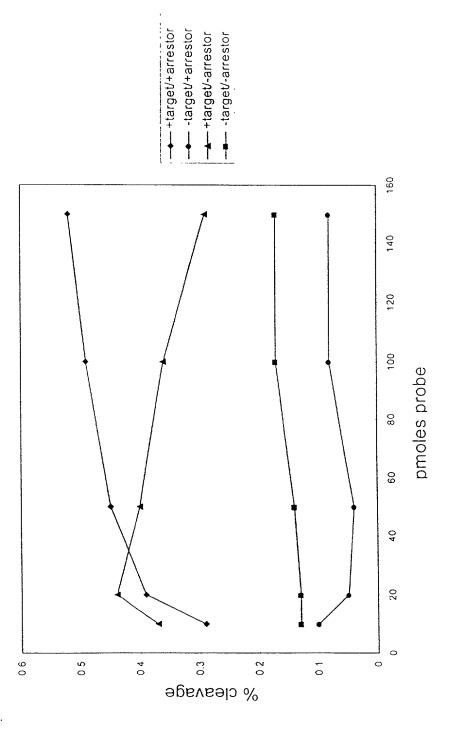
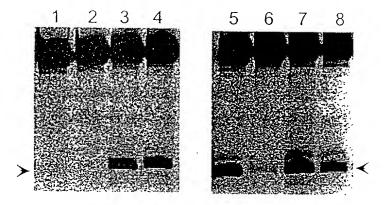
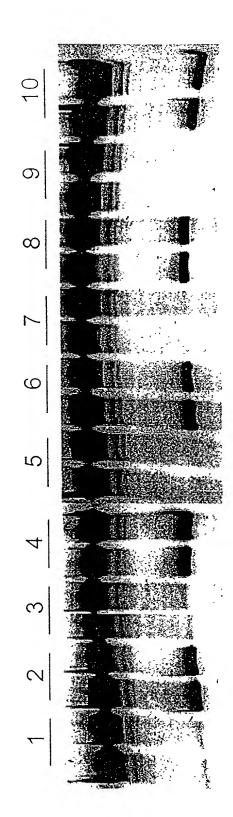


FIGURE 36A





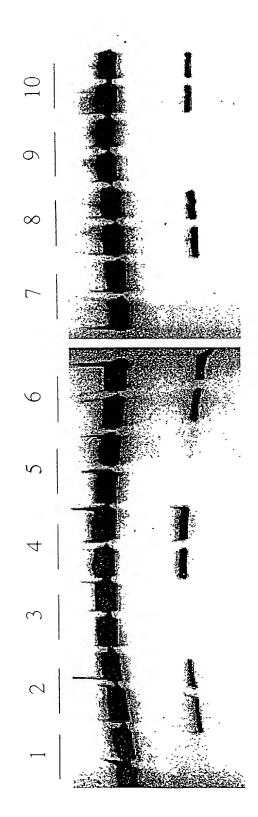


FIGURE 37C

Primary Probe 241-95-02 5' AACGAGGCACCCAAGGCACAGG-NH3+ 3'

3' NH3+GGGTGGGTTCCGTGTCG 5' 241-95-03

3'NH3+TGGGGTGGGTTCCGTGTCG 5' 241-95-04

3'NH3+TGCGGGGTGGGTTCCGTGTCG 5' 241-95-05

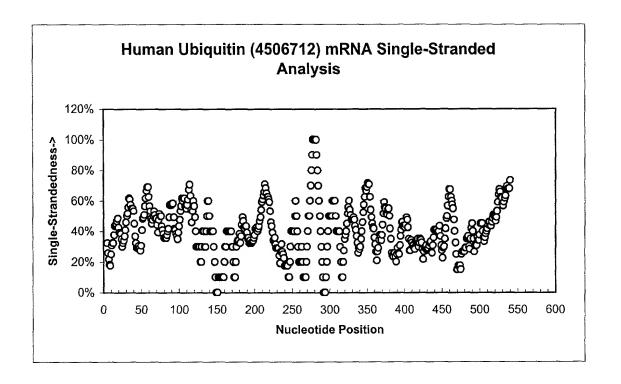
Arrestors

3'NH3+TGCGCGGGTGGGTTCCGTGTCG 5' 241-95-06

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Figure 39



				———		т.		
12	Sample 33	Sample 34	Sample 35	Sample 36	Sample 37	Sample 38	Sample 39	Sample 40
11	Sample 33	Sample 34 Sample 34	Sample 35 Sample 35	Sample 36 Sample 36	Sample 37	Sample 38	Sample 39	Sample 40
10	Sample 25 Sample 33	Sample 26	Sample 27	Sample 28	Sample 29	Sample 30	Sample 31	Sample 32
6	Sample 25	Sample 26	Sample 27	Sample 28	Sample 29	Sample 30	Sample 31	Sample 32
∞	Sample 17	Sample 18	Sample 19	Sample 20	Sample 21	Sample 22	Sample 23	Sample 24
7	Sample 17	Sample 18	Sample 19	Sample 12 Sample 12 Sample 20	Sample 21	Sample 14 Sample 14 Sample 22	Sample 15 Sample 15 Sample 23 Sample 23	Sample 16 Sample 24 Sample 24
9	Sample 9	Sample 10	Sample 11	Sample 12	Sample 13 Sample 13	Sample 14	Sample 15	Sample 16
5	Sample 9	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	
4	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8
3	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8
2	No Target Control	No Target Control	Standard 1 Standard 1	Standard 2 Standard 2	Standard 3 Standard 3	Standard 4 Standard 4	Standard 5 Standard 5	Standard 6 Standard 6
-	Negative No Target Control	No Target No Target Control Control	Standard 1	Standard 2	Standard 3	Standard 4	Standard 5	Standard 6
	4	В	S	D	田	뚀	Ð	Н

(SEQ ID NO:185) (SEQ ID NO:186) (SEQ ID NO:187) (SEQ ID NO:188) (SEQ ID NO:189) (SEQ ID NO:190)	(SEQ ID NO:191) (SEQ ID NO:192) (SEQ ID NO:193) (SEQ ID NO:189) (SEQ ID NO:190)	(SEQ ID NO:194) (SEQ ID NO:195) (SEQ ID NO:196) (SEQ ID NO:187) (SEQ ID NO:189) (SEQ ID NO:190)	(SEQ ID NO:198) (SEQ ID NO:199) (SEQ ID NO:200) (SEQ ID NO:201) (SEQ ID NO:189) (SEQ ID NO:190)
5'- CCG TCA CGC CTC CTC GGC TC -3' 5'- AGG CGA AAG CCC TCA ATT TCC CA-3' 5'- AAC CAC TGC GGC ACA -3' 5'- GAG CCG TGG AGG GG -3' 5'-FL-CAC-(Z28)-TGC TTC GTG G-3' 5'-FCAC GGA AGC AAG TGG AGG CGT GAC GGT -3'	5'-CCG TCA CGC CTC CTT CGG AGT TTG GG NH2 -3" 5' -GGG TTG TGG AGT GAG TGT TCA AGT A -3' NO STACKER 5'-GGG-AAA-CTC-CGA-AGG- AGG-CG-3' 5'-FL-CAC-Z28-TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	5'-CCG TCA CGC CTC TCT GAC TGC CA NH2-3' 5' -TTG TCA CTC GGG GTT CGA GAA GAT GAA-3' 5'- GGG CCA GAG GG -3' 5'- AGG CAG TCA GAG AGG CG -3' 5'-FL-CAC-Z28-TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT -3'	5' –CCG TCA CGC CTC CTC ATT GAA TTNH2-3' 5' –CCA AAA GTC CAG TGA TGA TTT TCA CCA GGC AAG TA -3' 5'- CAG ATT GGA AGC ATC CAT CT -3' 5'- GAT TCA ATG AGG AGG AGG C -3' 5'-FL-CAC-(228)-TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG GGG
hTGF-β Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe	hMCP-1 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hTNF-α Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hIL-6 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target

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AT CTG TTT AGG NH2-3' GA GCA CTT A-3' F GTT CTT GTC ATC-3' G AGG CG-3' GTG G-3' GTG G-3' GG AGG CGT GAC GGT-3' (SEQ ID NO:205) GG AGG CGT GAC GGT-3' (SEQ ID NO:190)	5'-CCG TCA CGC CTC CTC CAG TTG TAG NH2 -3' 5'-AAA ATC ATC TGT AAA TCC AGC AGT AAA TGA -3' 5'-AAA ATC ATC TGT AAA TCC AGC AGT AAA TGA -3' 5'-CTG TGT TTT CTT TGT AGA AC -3' 5'-CTG TGT TTT CTT TGT AGA AC -3' 5'-CTA CAA CTG GAG GAG GC -3' 6'-FL-CAC-(Z28)-TGC TTC GTG 6-3' 6'-FL-CAC-(Z28)-TGC TTC GTG AGG CGT GAC GGT-3' (SEQ ID NO:190)	5'-CCG TCA CGC CTC CTC TCA GTT CT-NH2-3' 6'-GTG TGG TCC ACT CTC AAT CAA -3' 6'-GTG TGG TCC ACT CTC AAT CAA -3' 6'-TTG ATA AAT TTG GGG TGG AAA GGT TTG GA-3' 6'-AGA ACT GAG AGG CG-3' 6'-AGA ACT GAG AGG CG-3' 6'-FL-CAC-(Z28)-TGC TTC GTG G-3' 6'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3' 6'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	5'-AAC GAG GCG CAC CAA ACT CAC TCA T-NH2-3' 5'-GTC ATG TAG GCT TCT ATG TAG TTG ATG AAG ATG TA-3' 5'-GCC TTT GTA GAT GCC TTT CTC TTG GA-3' 5'-ATG AGT GAG TTT GGT GCG-3' 6'-ATG AGT GAG TTT GGT GCG-3' 6'-FL-CAC (228)-TGC TTC GTG G-3' 6'-FL-CAC (228)-TGC TTC GTG G-3'
5' –CCG TCA CGC CTC CAT CTG TTT AGG NH2-3' 5' –CAG GTC CTG GAA GGA GCA CTT A-3' 5'-GCC ATC AGC TTC TTT GTT CTT GTC ATC-3' 6otide 5'-GCC CTA AAC AGA TGG AGG CG-3' 5'-FL-CAC-(Z28)-TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'			
hIL-1β Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hIL-2 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe	hIL-8 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe	hIL-10 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe

(SEQ ID NO:626) (SEQ ID NO:627) (SEQ ID NO:628) (SEQ ID NO:629) (SEQ ID NO:189) (SEQ ID NO:625)	(SEQ ID NO:630) (SEQ ID NO:631) (SEQ ID NO:632) (SEQ ID NO:633) (SEQ ID NO:189) (SEQ ID NO:625)
5'-AAC GAG GCG CAC CTT GGA GGC A-NH2-3' 5'-AAG GTT TCC TTC TCA GTT GTG TTA-3' 5'-GCA AAG ATG TCT GTT ACG GTC AAC TC-3' 5'-TGC CTC CAA GGT GCG C-3' 5'-FL-CAC (Z28)-TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	5'-AAC GAG GCG CAC CTT CAA AAT GCC TAA-NH2-3' 5'-TGT CAC TCT CCT CTT TCC AAT TA-3' 5'-GAA AAG AGT TCC ATT ATC CGC TAC ATC TG-3' 5'-TTA GGC ATT TTG AAG GTG CGC-3' 5'-TL-CAC (Z28)-TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'
hIL-4 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hIFN-y Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target

hCYP 1A2, 1193G Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	5'-AAC GAG GCG CAC CGT TGT GTC CC-NH2-3' 5'- GGG AT G TAG AAG CCA TTC AGA-3' 5'-TTG TTG TGC TGT GGG GGA TG-3' 5'-GGG ACA CAA CGG TGC GC-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	(SEQ ID NO:634) (SEQ ID NO:635) (SEQ ID NO:636) (SEQ ID NO:637) (SEQ ID NO:189) (SEQ ID NO:625)
hCYP 2B6, 343G Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	5'- CCG TCA CGC CTC CAC CAT ATC CC-NH2-3' 5'-CCA GCG GTT TCC ATT GGC AAA GAT CAA-3' 5'-CGG AAG AAT GGG TCG ACC ATG-3' 5'-GGG ATA TGG TGG AGG CG-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3'	(SEQ ID NO:638) (SEQ ID NO:639) (SEQ ID NO:640) (SEQ ID NO:641) (SEQ ID NO:189) (SEQ ID NO:190)
hCYP 2C19, 223G Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	5'-AAC GAG GCG CAC CGT TCC AGG C-NH2-3' 5'-CAT ATC CAT GCA GCA CCA TGA-3' 5'-CAA AAT ACA GAG TGA ACA CAG GGC C-3' 5'-GCC TGG AAC GGT GCG C-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	(SEQ ID NO:642) (SEQ ID NO:643) (SEQ ID NO:644) (SEQ ID NO:645) (SEQ ID NO:189) (SEQ ID NO:625)
hCYP 2C9, 1554T Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	5'-CCG TCA CGC CTC ATG GAT AAT GCC C-NH2-3' 5'-CAG GTG AGA AAA GGC ATT ACA GAT AGT GAA AGC-3' 5'-CAG AGG AAA GAC TGC AGG G-3' 5'-GGG CAT TAT CCA TGA GGC G-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-FCAC GAA AGC AAG TGG AGG CGT GAC GGT-3'	(SEQ ID NO:646) (SEQ ID NO:647) (SEQ ID NO:648) (SEQ ID NO:649) (SEQ ID NO:189) (SEQ ID NO:190)

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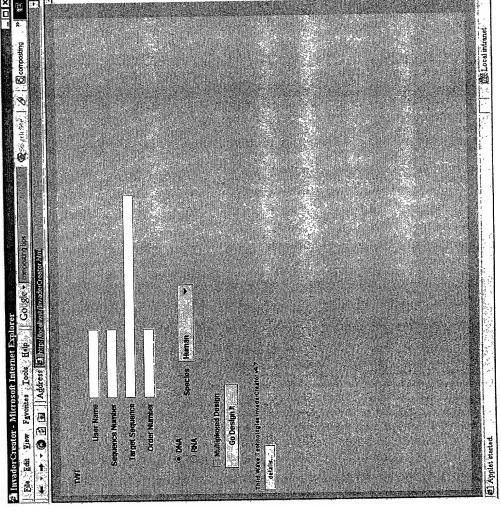
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5'-CCG TCA CGC CTC CCT GCT GAG AAA-NH2-3' 5'-CCC GAG GCA TGC ACG GCG GA-3' 5'-GCC AGG AAG GCC TCC-3' 5'-TTT CTC AGC AGG GAG GCG-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	5'-CCG TCA CGC CTC GCC CCA CA-NH2-3' 5'-CAG CAC AGG CTG TTG ACC ATC ATA AAA C-3' 5'-CTT TTC CAT ACT TTT TAT GAC ATT C-3' 5'-TGT GGG GCG AGG CG-3' 5'-TGT CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	5'-AAC GAG GCG CAC AGT TGA CCT TC-NH2-3' 5'-GTG ATG GCC AGC ACA GGG C-3' 5'-ATA CGT TCC CCA CAT TTT TC-3' 5'-TGA AGG TCA ACT GTG CGC-3' 5'-FCAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	5'-AAC GAG GCG CAC GTC ATA AAT ACC CC-NH2-3' 5'-GCC AGC ATA GGC TGT TGA CAC-3' 5'-AGA CTT TTC TAT ACT TTT TAT AAC ATT C-3' 5'-GGG GTA TTT ATG ACG TGC GC-3' 5'-GGG GTA TTT AGG TGC GC-3' 5'-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'
hCYP 2D6, 1316G Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hCYP 3A4, 309C Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hCYP 3A5 v2, 323T Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	hCYP 3A7, 231C Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target

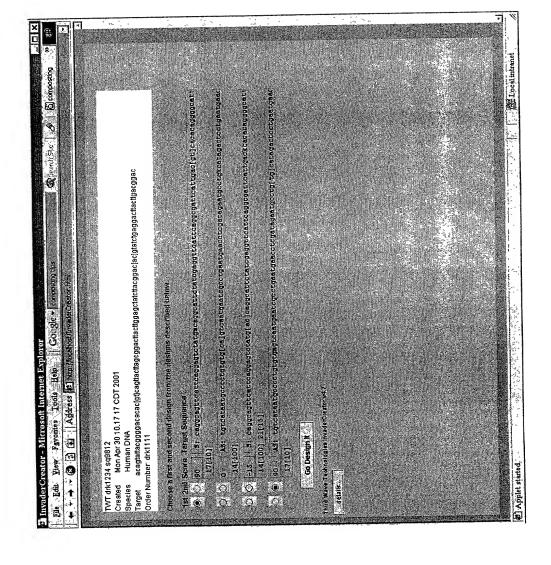
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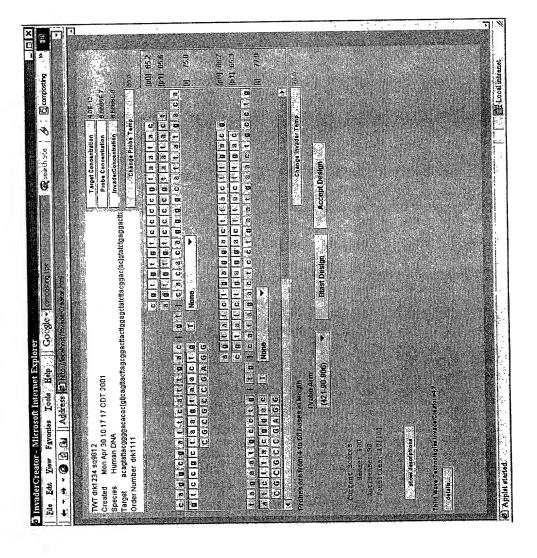
h/rCYP 1A1 (human: 937, rat 863G) Primary probe INVADER oligonucleotide (h) 5'-TCC TGA INVADER oligonucleotide (r) 5'-TCC TGA Stacker ARRESTOR oligonucleotide 5'-ATC ACA FRET Probe 5'-CCA GGA	rat 863G) 5-ccg tca cgc ctc ctg tct gtg at-nh2-3' 5- tcc tga cag tgc tca atc agg a-3' 5- tcc tga cag tgc tca atc agg a-3' 5- tcc tga cat tgc tca atg agg a-3' 5- stc ccg gat gtg gcc c-3' 5- stc aga agg cg-3' 5-Atc aga agg agg cg-3' 5-FL-cac (228) tgc ttc gtg agg cgt gac ggt -3'	(SEQ ID NO:666) (SEQ ID NO:667) (SEQ ID NO:668) (SEQ ID NO:669) (SEQ ID NO:670) (SEQ ID NO:189) (SEQ ID NO:190)
h/rCYP 1A2 (813C/819C) Primary probe INVADER oligonucleotide (h) ARRESTOR oligonucleotide FRET Probe Secondary target	5'-AAC GAG GCG CAC GGA CTG TTT TCT GC-NH2-3' 5'-CTT GTC AAA GTC CTG ATA GTG CTC CTC-3' 5'-CTT GTT GAA GTC TTG ATA GTG TTC CTC-3' 5'-GCA GAA AAC AGT CCG TGC GC-3' 5'-CCA GAA AAC AGT CGTG G-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	(SEQ ID NO:671) (SEQ ID NO:672) (SEQ ID NO:673) (SEQ ID NO:674) (SEQ ID NO:789) (SEQ ID NO:625)
rCYP 2B1, 1017T Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe	5'-CCG TCA CGC CTC ACT GCG GTC AT-NH2-3' 5'-GTG GAT AAC TGC ATC AGT GTA TGG CAT TTT C-3' 5'-CAA GGG TTG GTA GCC TGT GTG AGC C-3' 5'-ATG ACC GCA GTG AGG CG-3' 5'-ATG ACC (Z28) TGC TTC GTG G-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3'	(SEQ ID NO:675) (SEQ ID NO:676) (SEQ ID NO:677) (SEQ ID NO:678) (SEQ ID NO:189) (SEQ ID NO:190)
rCYP 2B2, 162T Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	5'-CCG TCA CGC CTC AGA GCC AAT CAC-NH2-3' 5'-CGA TCA TCA AGG GAT GGT GGC CTG TGC-3' 5'-CTG ATC AAT CTC CTT TTG GAC TTT CTC TGC G-3' 5'-GTG ATT GGC TCT GAG GCG-3' 5'-EL-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	(SEQ ID NO:679) (SEQ ID NO:680) (SEQ ID NO:681) (SEQ ID NO:682) (SEQ ID NO:189) (SEQ ID NO:190)

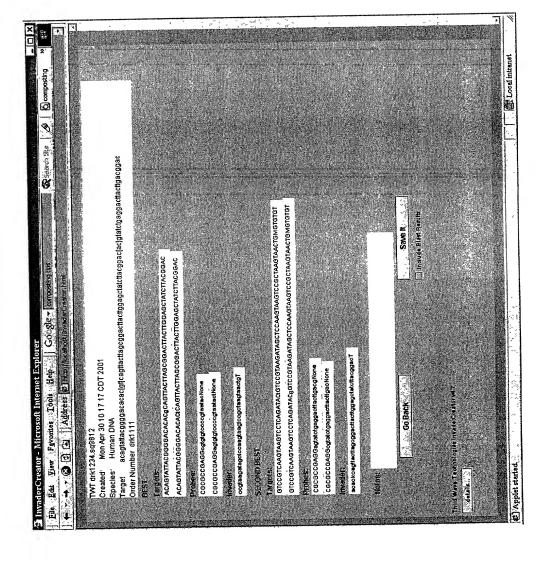
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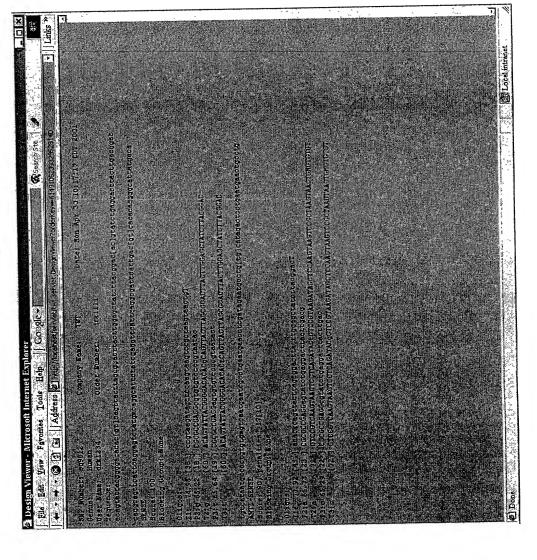
(SEQ ID NO:699) (SEQ ID NO:700) (SEQ ID NO:701) (SEQ ID NO:702) (SEQ ID NO:189) (SEQ ID NO:625)	(SEQ ID NO:703) (SEQ ID NO:704) (SEQ ID NO:705) (SEQ ID NO:706) (SEQ ID NO:189) (SEQ ID NO:625)
5'-AAC GAG GCG CAC AGA AGG CCC CTT-NH2-3' 5'-CCT TGA ACA GCA CCA GAA ATA GAC TGA GCA C-3' 5'-GGA AGA ACC CAG AGA CAC CAT CC-3' 5'-AAG GGG CCT TCT GTG CGC-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3' 5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	5'-AAC GAG GCG CAC GTT GTG ATA CCT T-NH2-3' 5'- GAT GAA GGC CAT AAA TT A AAA TTG TGC-3' 5'-TGG GTA TGG AAC GTC C-3' 5'-AAG GTA TCA CAA CGT GCG C-3' 5'-ACC (Z28) TGC TTC GTG G-3' 5'-FL-CAC (Z28) TGC TTC GTG G-3'
rCYP 4A2 Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target	rCYP 4A3, 1235C Primary probe INVADER oligonucleotide Stacker ARRESTOR oligonucleotide FRET Probe Secondary target











FIGURE~47 Oligo sequence descriptions: 5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications defined in ()

1	Olima Saminanco (F. to 3.)	Modification	SEQ ID NO
Oligo Lype			
hTNF-α			400
probe	ccg ccg aga tca ctc tga ctg cct NH2	S All in G	710
invader	ttg tca ctc ggg gtt cga gaa gat gaa	oll 2'Ome hasees	711
stacker	ggg cca gag ggc tga tta g	all 2 Oline bases	712
stacker	agg cca gag ggc tga tta	all 2/Ome bases	713
stacker	ggg cca gag ggc tg at	all 2 Olife Bases	714
stacker	ggg cca gag ggc t	all 2 Oille Dases	715
stacker	බිගිගි රෙන බන්ග බර	all 2 Ome bases	716
arrestor	agg cag tca gag tga tc	all 2 Ollie Mases	717
arrestor	agg cag tea gag tga tet c	3' Amine	718
SRT	cggaagaagcagttggtgatctcggcgglNFlZ		719
FRET probe	Fcaac(Cy3)gcttcctccg		
do	cca toa cac etc tct aac tac ct NH2	3' Amine	720
opovei.	the tea etc and att caa daa dat daa		17)
stacker	aga cca gag gac tga tta g	all 2'Ome bases	72.7
arrestor	add cad fca gag agg cg	all 2'Ome bases	627
SRT	cqqaaqaaqcagttggaggcgtgacggtNH2	3'base 2'Ome , 3'Amine	727
FRET probe	Fcaac(Cy3)gcttcctccg		677
		2. Amine	726
probe	ccg tca cgc ctc tct gac tgc ctg gNHZ		727
invader	ttg tca ctc ggg gtt cga gaa gar gaa	all 210mo haces	728
arrestor	cca ggc agt cag aga ggc g	3'hasa 2'Oma 3'Amine	729
SRT	cggaagaagcagttggaggcgtgacggginnz Foocy(Ny3)acttotoca		730
FKEI prope	FCaac(C)3)gc:::ccac(C)3		
probe	ccg ccg aga tca ctc tga ctg cc NH2	3' Amine	731
invader	ttg tca ctc ggg gtt cga gaa gat gaa		733
stacker	tgg gcc aga ggg ctg att a	all Z'Ome bases	734
arrestor	agg cag tea gag tga te	3' Amine	735
SRT	cggaagaagcagttggtgatctcggcggNH2		736
FRET probe	Fcaac(Cy3)gcttcctccg		
oppor	con oco aga toa cta atc taa ctg NH2	3' Amine	737
invader	ctt gtc act cgg ggt tcg aga aga c		7.38

FRET proper invader

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stacker arrestor SRT FRET probe	cct ggg cca gag ggc tga tt_cag tca gat cag tga tc_cag tca gat cag tga tc_caggaggaggagggNH2	all 2'Ome bases all 2'Ome bases 3' Amine	739 740 741 742
probe probe probe probe invader stacker arrestor arrestor SRT FRET probe	ccg tca cgc ctc tct gac tgc ca NH2 ccg tca cgc ctc tct gac tgc cg NH2 ccg tca cgc ctc tct gac ggc ct NH2 ccg tca cgc ctc tct gac agc ct NH2 ttg tca ctc ggg gtt cga gaa gat gaa ggg cca gag gg agg cca gag agg cg agg ccg tca gag agg cg agg ccg tca gag agg cg ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	3' Amine 3' Amine 3' Amine 3' Amine all 2'Ome bases 3' 3bases 2'Ome	743 745 745 747 747 749 750 751
probe invader arrestor SRT FRET probe	ccg ccg aga tca ctc tga tgc ctg gg NH2 ctt gtc act cgg ggt tcg aga aga tga a ccc agg cag tca gag tga tcNH2 cggaggaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases,3' Amine 3' 2 last base <u>2' Ome</u> , 3' Amine	754 755 756 757 757
hIL-1β probe invader stacker arrestor SRT FRET probe	ccg tca cgc ctc cat ctg ttt agg g NH2 cag gtc ctg gaa gga gca ctt a cca tca gct tct ttg ttc ttg tca tc gcc cta aac aga tgg agg cg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome , 3'Amine	759 760 761 762 763
probe invader stacker arrestor SRT FRET probe	ccg tca cgc ctc cat ctg ttt agg gc NH2 cag gtc ctg gaa gga gca ctt a cat cag ctt ctt tgt tct tgt cat cc gcc cta aac aga tgg agg cg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	765 766 767 768 769 770

SRT FRET probe

ccg tca cgc ctc cat ctg ttt agg NH2

771

3' Amine

772 773 774 775	776 777 778 779 780 781	782 783 784 785 786	788 789 790 791 795 795 796 797 797 798 800 800 803 803
all 2'Ome bases 3'base 2'Ome , 3'Amine	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	3' Amine 3' Amine all 2'Ome bases,3' Amine 3' 2 last base 2' Ome, 3' Amine	3' Amine all 2'Ome bases 3'base 2'Ome, 3'Amine 3' Amine all 2'Ome bases 3'base 2'Ome, 3'Amine 3' Amine all 2'Ome bases 3'base 2'Ome, 3'Amine 3' Amine 3' Amine
cag gtc ctg gaa gga gca ctt a gcc atc agc ttc ttt gtt ctt gtc atc cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc cca tca gct tcNH2 gag cac ttc atc tgt tta ggg a ttt gtt ctt gtc atc ctc att gcc ac gaa gct gat ggg agg cg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccgccgagatcactcatctgtttagggccNH2 ccgccgagatcactcatctgtttagggcNH2 caggtcctggaaggagcacta ggccctaaacagatgagtcNH2 cggaggaagcagttggtgatcNH2 cggaggaagcagttggtgatctcggcggNH2	cog tca cgc ctc cag cag gtt ggc NH2 gct tga ccc agg gag gg gcc aag gtg ctg gag gcg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg ccg tca cgc ctc cag cag gtt gg NH2 gct tga ccc agg gag gg caa tct cgg tct gca aag cag ac. gcc aag gtg ctg gag gcg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg ccg tca cgc ctc tca gca ggt tgg NH2 act cta gtt ttt cct tct cct a caa tct cgg tct gca aag cag ac. ccg tca cgc ctc tca gca ggt tgg NH2 ccg tca cgc ctc tca gca ggt tgg NH2 ccg tca cgc ctc tca gca ggt tgg NH2 ccg tca cgc ctc tca gca ggt tgg NH2 ccg tca cgc ctc tcc cct a cca acc tgc tga gag gcg.
invader stacker SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe probe invader arrestor SRT FRET probe	hcFOS probe invader arrestor SRT FRET probe invader stacker arrestor SRT probe invader stacker arrestor SRT FRET probe

nIL-6 probe probe invader arrestor SRT FRET probe	ccg ccg aga tca ctc tcc tca ttg aat cct NH2 ccg ccg aga tca ctc tcc tca ttg aat ccNH2 cca aaa gtc cag tga tga ttt tca cca ggc aag a aga at caa tga aga aga atc tNH2 cggaggaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg	3' Amine 3' Amine all 2'Ome bases,3' Amine 3' 2 last base 2' Ome , 3' Amine	805 806 807 808 809 810
probe invader stacker arrestor SRT FRET probe	ccg toa cgc ctc ctc ctc att gaaNH2 cca gtg atg att ttc acc agg caa gta tcc aga ttg gaa gca tcc atc t ttc aat gag gag ggc cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	812 813 815 815 816
probe invader stacker arrestor SRT FRET probe	ccg tca cgc ctc ctc att gaNH2 cca gtg atg att ttc acc agg caa gta atc cag att gga agc atc cat ct ttc aat gag gag gc cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	817 818 819 820 821
probe probe probe invader stacker arrestor SRT FRET probe	ccg tca cgc ctc ctc att gaa tgNH2 ccg tca cgc ctc ctc att gaa taNH2 ccg tca cgc ctc ctc att gaa taNH2 ccg tca cgc ctc ctc att gaa ttNH2 cca aaa gtc cag tga tga ttt tca cca ggc aag ta cagattggaagcatccatct gattcaatgaggaggaggc ccaggaagcaagtggagggc ccaggaagcaagtggaggggtgacggu	3' Amine 3' Amine 3' Amine all 2'Ome bases all 2'Ome bases 3' 3bases 2'Ome	823 824 825 826 827 828 829 830
hMCP-1 probe probe invader arrestor SRT	ccg tca cgc ctc ctt cgg agt ttg gtNH2 ccg tca cgc ctc ctt cgg agt ttg gtt NH2 ggg ttg tgg agt gag tgt tca agt a aac cca aac tcc gaa ggc ggc gtg NH2. cggaagaagcagttggaggcgtgacggtNH2.	3' Amine 3' Amine all 2'Ome bases 3'base 2'Ome , 3'Amine	831 832 833 834 835

FRET probe Fcaac(Cy	Fcaac(Cy3)gcttcctccg		836
cc gtc acc gtc ac	goc gtc acg cct ctt tgg gtt tgc ttg tc NH2 gcc gtc acg cct ctt tgg gtt tgc ttg tNH2	3' Amine 3' Amine	838
ggagtgag I acaagc ggaagaa caac(Cy	tggagtgagtgttcaagtcttcggaga gacaagcaaacccaaagaggcg cggaagaagcagttggaggcgtgacg gc NH2 Fcaac(Cy3)gcttcctccg	all 2'Ome bases 3'2 bases 2'Ome , 3'Amine	839 840 841 842
ct gtc tcg ct gtc tcg gg ttg tgg cc aaa c cc aaa c ggaggaa ggaggaa ggaggaa ggaggaa ggaggaa	cct gtc tcg ctg cct tcg gag ttt ggg cct gtc tcg ct tcg gag ttt gg ggg ttg tgg agt gag ttt gg ggg ttg tgg agt gag tgt tca agt a ccc aaa ctc cga agg cag cg cggaggaagcagttggcagcgagac(Amino dA)ggNH2 cggaggaagcagttggcagcg(Amino dA)gacaggNH2 cggaggaagcagttggcagcg(Amino dA)gacaggNH2 cggaggaagcagttggcagcg(Amino dA)gcgagacagttggcagcg(Amino dA)gcgagacagttggc(Amino dA)gcgagacagttggc(Amino dA)gcgagacagttggc(Amino dA)gcgagacagttggc(Amino dA)gcgagacagttggc(Amino dA)gcgagacagttggc(Amino dA)gcgagacagttggc(Amino dA)gcg(Amino dA)gacaggNH2	all 2'Ome bases 3' last base 2'Ome, 3' Amine Amino dA modification	843 845 845 847 848 849 853 853
caac(Cy cc gtc ac icc aca a ica aca a igaaagaa	Fcaac(Cy3)gcttcctccg gcc gtc acg cct ctg gga cac ttg ctg cNH2 gcc aca atg gtc ttg aag atc aca gct tct ta gca gca agt gtc cca gag gcg NH2 cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases,3' Amine 3'2 bases <u>2'Ome</u> , 3'Amine	854 855 856 857 858 858
ccg tca cc ggg ttg tgg 5'-ggg-aa ccaggaag	ccg tca cgc ctc ctt cgg agt ttg gg NH2 ggg ttg tgg agt gag tgt tca agt a 5'-ggg-aaa-ctc-cga-agg-agg-cg-3' ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	3' Amine all 2'Ome bases 3' 3bases 2'Ome	860 861 862 863 863
ogo oga g ggg ttg tgg coc aaa c oggaagaa Foaac(Oy	cgc cga gat cac ctt cgg agt ttg ggNH2 ggg ttg tgg agt gag tgt tca agt a ccc aaa ctc cga agg tga tc cggaagaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases 3' Amine	865 866 867 868 869

870 871 872 873 874	875 876 877 878 879 880	881 882 883 884 885 886	887 888 889 890 891 892	893 894 895 896 897 898	899 900 902 903
3' Amine <u>all 2'Ome bases</u> 3' last 5 bases <u>2'Ome,</u> 3' Amine	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	3' Amine all 2'Ome bases all 2'Ome bases 3'base 2'Ome, 3'Amine	3' Amine all 2'Ome bases all 2'Ome bases 3' Amine
aac gag gcg cac ctt cgg agt ttg gg NH2 ggg ttg tgg agt gag tgt tca agt a ccc aaa ctc cga agg tgc g cggaagaagcagttggtgcgcctcgttaaNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc ctt cgg agt ttg g NH2 ggg ttg tgg agt gag tgt tca agt a gtt tgc ttg tcc agg tgg cca aac tcc gaa gga ggc g cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc ctt cgg agt ttg NH2 ggg ttg tgg agt gag tgt tca agt a gtt ttg ctt gtc cag gtg g cca aac tcc gaa gga ggc g cgaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc ctt cgg agt ttNH2 ggg ttg tgg agt gag tgt tca agt a ggg ttt gct tgt cca ggt g cca aac tcc gaa gga ggc g cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccgtcacgcctccggagtttgggNH2 gtt gtg gag tga gtg ttc aag tat ta ttt gct tgt cca ggt ggt cca g ccc aaa ctc cgg agg cg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	cgc cga gat cac cgg agt ttg ggNH2 gtt gtg gag tga gtg ttc aag tat ta ttt gct tgt cca ggt ggt cca g cta gtg gcc tca aac cc cggaagaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg
probe invader arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe

hUbiquitin probe probe invader arrestor SRT FRET probe	cgc cga gat cac ctt tac att ttc tat cgt cgc cga gat cac ctt tac att ttc tat cgt NH2 5' –cct tcc tta tcc tgg atc ttg gca -3' acg ata gaa aat gta aag gtg atc. 5'-cgc agt gag aat gag gtg atc tcg gcggt-3' 5'-Red-ctc-Z21-ttc tca gtg cg-3'	3' Amine all 2'Ome bases 3' last 3 bases 2'Ome.	905 906 907 908 909 910
hIL-2 probe invader stacker arrestor SRT FRET probe	gtttcttttgtgtctccgcactgccNH2 cca gca gta aat gct cca gtt gta ga tag aac ttg aag tag gtg c. caa aga aaa cac agg agg c. ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	3' Amine all 2'Ome bases all 2'Ome bases 3' 3bases 2'Ome	911 913 914 915
probe invader stacker arrestor SRT FRET probe	aac gag gcg cac ctg tgt ttt ctt tg NH2 cca gca gta aat gct cca gtt gta ga tag aac ttg aag tag gtg c. caa aga aaa cac agg tgc g ccaggaagcaagtggtgcgcctcgttt Fcac(Z21)tgcttcgtgg	3' Amine all 2'Ome bases all 2'Ome bases 3' last 3 bases 2'Ome	917 918 919 920 921
probe invader stacker arrestor SRT FRET probe	ccg tca cgc ctc ctc cag ttg tag NH2 aaa atc atc tgt aaa tcc agc agt aaa tga ctg tgt ttt ctt tgt aga ac cta caa ctg gag gag gc ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	3' Amine 5' 6 bases 2'Ome all 2'Ome bases all 2'Ome bases 3' 3bases 2'Ome	923 924 925 926 927
probe invader stacker arrestor SRT FRET probe	aac gag gcg cac ctc cag ttg tag NH2 aaa atc atc tgt aaa tcc agc agt aaa tga ctg tgt ttt ctt tgt aga ac cta caa ctg gag gtg cg ccaggaagcaagtggtgcgcctcgttt Fcac(Z21)tgcttcgtgg	3' Amine 5' 6 bases 2'Ome all 2'Ome bases all 2'Ome bases 3' last 3 bases 2'Ome	929 930 932 933 933

arrestor SRT FRET probe

935 936 937 938 939 940	941 942 943 944 945	947 948 949 950 951 952 953	955 956 957 958 959	960 961 963 963 964	966 968 969
3' Amine all 2'Ome bases all 2'Ome bases, 3' amine 3' 3bases 2'Ome	3' Amine all 2'Ome bases all 2'Ome bases 3' last 3 bases 2'Ome	3' Amine 3' Amine 3' Amine 5' 6 bases 2'Ome all 2'Ome bases all 2'Ome bases 3' 3bases 2'Ome	3' Amine all 2'Ome bases,3' Amine 3'2 bases 2'Ome , 3'Amine	3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine 3'2 bases 2'Ome, 3'Amine	All 2' Ome
ccg tca cgc ctc ctg tgt ttt ctt tgt aNH2 gaa ctt gaa gta gat gca ctg tt tacaaagaaaacacaggaggcgtNH2 ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	aac gag gcg cac ctg tgt ttt ctt tgt aNH2 gta aat cca gca gta aat gct cca gtt gta ga gaa ctt gaa gta ggt gca ctg tt tac aaa gaa aac aca ggt gcg ccaggaagcaagtggtgcgcctcgttt Fcac(Z21)tgcttcgtgg	ccg tca cgc ctc ctc cag ttg taa NH2 ccg tca cgc ctc ctc cag ttg tat NH2 ccg tca cgc ctc ctc cag ttg tac NH2 aaa atc atc tgt aaa tcc agc agt aaa tga ctg tgt ttt ctt tgt aga ac cta caa ctg gag gag gc ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	gcc gtc acg cct ccc ttc ttg atg NH2 ttc tag aca ctg aag atg ttt cag ttc tgt gga cat gcc caa gaa ggg agg cg NH2 cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc taa ttc cat tca aaa tca tct NH2 cat cct ggt gag ttt ggg att ctt gta att tat a gta aat cca gca gta aat gct cca gNH2 aga tga ttt tga atg gaa tta gag gcg NH2 cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cy3)gcttcctccg	ccg ccg aga tca cct gtg ttt tct ttg ta gta aat cca gca gta aat gct cca gtt gta ga gaa ctt gaa gta ggt gca ctg tt gaa ctt gaa gta ggt gca ctg tt
probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe probe probe invader stacker arrestor SRT FRET probe	probe invader arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker stacker

probe invader stacker stacker

OSBSHBSB BSSHOT

stacker stacker arrestor SRT FRET probe	gaa ctt gaa gta ggt gca ctg tt gaa ctt gaa gta ggt gca ctg tt tac aaa gaa aac aca ggt gat ct cggaggaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg	5' 3bases 2'Ome 5' 6bases 2'Ome All 2' Ome 3' 2 last base 2' Ome, 3' Amine	970 971 972 973 974
probe invader arrestor SRT FRET probe	aac gag gcg cac cct tct tgg gca tgNH2 ttc tag aca ctg aag atg ttt cag ttc tgt gga cat gcc caa gaa ggg tgc gNH2 cggaagaagcagttggtgcgcctcgttaaNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases 3' last 5 bases <u>2'Ome</u> , 3' Amine	975 976 977 978 979
probe invader stacker arrestor SRT FRET probe	aac gag gcg cac taa ttc cat tca aaa tca tct cat cct ggt gag ttt gga att ctt gta att tat a gta aat cca gca gta aat gct cca gNH2 aga tga ttt tga atg gaa tta gtg gt NH2 cggaagaagcagttggtgcgcctcgttaaNH2 Fcaac(Cy3)gcttcctccg	all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine 3' last 5 bases 2'Ome, 3' Amine	980 981 982 983 984
hlL-4 probe invader invader arrestor arrestor SRT FRET probe	cct gtc tcg ctg cca gtt gtg ttc ttg gag NH2 ccc tgc aga agg ttt cct tct a ccc tgc aga tgg ttt cct tct a ctc caa gaa cac aac tgg cag cNH2 ctc caa gaa cac aac tgg cag cga NH2 ctc caa gaa cac aac tgg cag cga NH2 ctc caa gaa cac aac tgg cag cga gaNH2 ctc caa gaa cac aac tgg cag cga gaNH2 cggaggaagcagttggcagcgagacaggNH2 Fcaac(Cy3)gcttcctccg	3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine 3' last base 2'Ome, 3' Amine	986 987 988 989 991 992
probe probe invader arrestor SRT FRET probe	aac gag gcg cac ctt gga ggc agc aaa NH2 aac gag gcg cac ctt gga ggc agc aaNH2 aag gtt toc ttc tca gtt gtg tta ctt tgc tgc ctc caa ggt gcg NH2 cggaggaagcagttggtgcgcctcgttaa NH2 Fcaac(Cy3)gcttcctccg	3' Amine 3' Amine all 2'Ome bases,3' Amine 3' last 5 bases 2'Ome, 3' Amine	994 995 996 997 998
probe invader arrestor	cag toa cgt ctc tgg agg cag caa aga tg NH2 aag gtt tcc ttc tca gtt gtg ttc ta cat ctt tgc tgc ctc cag aga cg NH2	3' Amine all 2'Ome bases,3' Amine	1000 1001 1002

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1003 1004	1005 1006 1007 1008 1009	1010 1011 1012 ne 1013	1015 1016 1017 1019 1020 1021	1023 1024 1025 1026 1027	1029 1030 1031 1032 1033
3' Amine	3' Amine all 2'Ome bases,3' Amine 3' last 5 bases 2'Ome	3' Amine all 2'Ome bases,3' Amine 3' last two bases are 2' Ome , 3' Amine	3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine 3' Last 2bases 2'Ome, 3' Amine	3' Amine 3' Amine all 2'Ome bases,3' Amine 3' Last 2bases 2'Ome, 3' Amine	3' Amine <u>all 2'Ome bases,3' Amine</u> 3' last 5 bases 2'Ome
gctactgagatgaaggagacgtgactgtaNH2 Fcttc(Cy3)tctcagtagc	aac gag gcg cac ctt gga ggc agc aaa g NH2 aag gtt tcc ttc tca gtt gtg tta ctt tgc tgc ctc caa ggt gcg NH2 cggaggaagcagttggtgcgcctcgttaa Fcaac(Cy3)gcttcctccg	cgc cga gat cac ccc ttt agt ttt aca aca gtNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga act gtt gta aaa cta aag ggg gtg atc t NH2 cggaggaagcggttggtgatctcgg cg NH2 Fcaac(Cy3)gcttcctccg	tgc cgc cga gat cac ccc ttt agt ttt aca aca gtNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga act gtt gta aaa cta aag ggg gtg at NH2 act gtt gta aaa cta aag ggg gtg at NH2 act gtt gta aaa cta aag ggg gtg at ctNH2 act gtt gta aaa cta aag ggg gtg at ctNH2 act gtt gta aaa cta aag ggg gtg at ctNH2 cggaggaagcggttggtgatctcggcggcaNH2 cggaggaagcggttggtgatctcggcggcaNH2	gc cgc cga gat cac ccc ttt agt ttt aca aca gtNH2 c cgc cga gat cac ccc ttt agt ttt aca aca gtNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga act gtt gta aaa cta aag ggg gtg at NH2 cggaggaagcggttggtgatctcggcggcaNH2 Fcaac(Cy3)gcttcctccg	aac gag gcg cac ccc ttt agt ttt aca aca gt NH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga agtaactgttgtaaaactaaaggggtgcg cggaggaagcagttggtgcgcctcgttaa Fcaac(Cy3)gcttcctccg
SRT FRET probe	probe invader arrestor SRT FRET probe	mIL-2 probe invader arrestor SRT FRET probe	probe invader arrestor arrestor arrestor arrestor SRT FRET probe	probe probe invader arrestor SRT FRET probe	probe invader arrestor SRT FRET probe

8//14s

1035 1036 103 <i>7</i> 1038	1039 1040 1041 1042 1043	1045 1046 1047 1048 1049	1051 1052 1053 1054 1055	1057 1058 1059 1060 1061	1063 1064 1065 1066
all 2'Ome bases,3' Amine 3' last 5 bases 2'Ome	3' Amine all 2'Ome bases, all 2'Ome bases, 3'base 2'Ome, 3'Amine	3' Amìne All 2'Ome All 2'Ome 3' Amine	3' Amine All 2'Ome All 2'Ome 3'base 2'Ome , 3'Amine	3' Amine All 2'Ome All 2'Ome 3' 2 bases 2'Ome , 3'Amine	3' Amine all 2'Ome bases, all 2'Ome bases, 3'base 2'Ome, 3'Amine
gaa ttg gca ctc aaa tgt gtt gtc aga ga agt aac tgt tgt aaa act aaa ggg gtg cg NH2 cggaggaagcagttggtgcgcctcgttaa Fcaac(Cy3)gcttcctccg	cogtcacgcctccctttagttttacaacNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga agt tac tct gat att gct gat gaa att ctc ag gttgtaaaactaaagggaggcg cggaagaagcagttggaggcgtacggtNH2 Fcaac(Cy3)gcttcctccg	cgccgagatcaccctttagttttacaacNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga agt tac tct gat att gct gat gaa att ctc ag gttgtaaaactaaaggggtgatc cggaagaagcagttggtgatccggcggNH2 Fcaac(Cy3)gcttcctccg	ccgtcacgcctccctttagttttacaaNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga cagttactctgatattgctgatgaaattctca gttgtaaaactaaagggaggcg cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccgtcacgcctccctttagttttacaaNH2 gaa ttg gca ctc aaa tgt gtt gtc aga ga cagttactctgatattgctgatgaaattctca gttgtaaaactaaagggaaggcg ccaggaagcagttggaggcgtNH2 Fcaac(Cy3)gcttcgtgg	ccg tca cgc ctc ccg tta gct aag at NH2 cga ggt ttt cca agg agt tgt tta ccc tgg atc aga ttt aga gag ca atc tta gct aac ggg agg cg cggaagaagcagttggaggcgtgacggtNH2
invader arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	probe invader stacker arrestor SRT FRET probe	mIL-10 probe stacker stacker arrestor SRT

1068	1069	1071 1072 1073 1074	1075 1076	1077 1078 1079 1080	1081 1082	1083 1084 1085 1086	1087	1089 1090 1091	1092 1093	1094 1095 1096	1097
	3' Amine	all 2'Ome bases. all 2'Ome bases. 3' 3bases 2'Ome	3' Amine	all 2'Ome bases, all 2'Ome bases, 3' 3bases 2'Ome	3' Amine	All 2'Ome All 2'Ome 3' 3bases 2'Ome	3' Amine	all 2'Ome bases,3' Amine 3' last 5 bases 2'Ome	3' Amine	all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine	3' Amine
Fraac/Cv3)acttoctcca	ccg tca cgc ctc agt tgt ttc cgt tNH2	aga ggt aca aac gag gtt ttc caa ggc agc taa gat ccc tgg atc aga ttt aga ga aac gga aac tga ggc g ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	ccg tca cgc ctc ccg tta gct aNH2	caa acg agg ttt tcc aag gag ttg a aga tcc ctg gat cag att tag aga gct c tag cta acg gaa aga ggc g ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	ccg tca cgc ctc ccg tta gNH2	aga ggt aca aac gag gtt ttc caa gga ga cta aga tcc ctg gat cag att tag aga g ctaacggaaacaagaggcg ccaggaagcaagtggaggcgtgacggu Fcac(Z21)tgcttcgtgg	aac gag gcg cac ctt acc aat gcc taa gaa aag agt tNH2	tgc att att ttt ctg tca ctc tcc tct ttc caa tta aac tct ttt ctt agg cat ttt gaa ggt gcg NH2 cggaggaagcagttggtgcgcctcgttaaNH2 Fcaac(Cy3)gcttcctccg	cag tca cgt ctc tct tca aaa tgc cta aga aaa gag tNH2	tot goa tta ttt tto tgt oac tot oot ott too aat a act ott tto tta ggo att ttg aag aga gac gNH2 gctactgagatgaaggagacgtgactgtaNH2 Fotto(Cy3)totcagtagc	aac gag gcg cac cct ttt gcc agt tcc NH2
CDET probe	probe	invader stacker arrestor SRT FRET probe	probe	invader stacker arrestor SRT FRET probe	probe	invader stacker arrestor SRT FRET probe	hIFN-γ	invader arrestor SRT FRET probe	probe	invader arrestor SRT FRET probe	mlFN-γ probe

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got ctg cag gat ttt cat gtc acc ata gag gaa ctg gca aaa ggg tgc gNH2 gctactgagatgaaggagacgtgactgtaNI Fcttc(Cy3)tctcagtagc
gct ctg cag gat ttt cat gtc acc ata tcc tcc aga tat cca aga aga gac tc act ggc aaa agg cgg gc cgg agg aaag cag ttg gtg cgc ctc guu aa NH2 cgg aag aaag cag ttg gtg cgc ctc guu aa NH2
Fcaac(Cy3)gcttcctccg
gec gea ege ege ett ttg eea gt NH2 get etg eag gat ttt eat gte ace ata
tcc tcc aga tat cca aga aga gac tc act ggc aaa agg cgg gc cgg agg aag cag ttg cgg cgt gcg gca NH2 Fcaac(Cy3)gcttcctccg
aac gag gcg cac cct ttt gcc agt tc NH2 gct ctg cag gat ttt cat gtc acc ata
ctc cag ata tcc aag aag aga ctc gaa ctg gca aaa ggg tgc g
cggaggaagcagttggtgcgcctc gttaaNH2 Fcaac(Cy3)gcttcctccg
ccg toa cgc ctc ctt ggc aaa act gca ccNH2 ccg tca cgc ctc ctt ggc aaa act gca cca NH2 ctt tat cca cto aca tct aaa ttc ttt acc act ca
tgg tgc agt ttt gcc aag gag gcg NH2 tgg tgc agt ttt gcc aag gag gcg tg NH2 cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cy3)gcttcctccg
ccg tca cgc ctc cat ctt cac tga ttc ttg gNH2 ccg tca cgc ctc cat ctt cac tga ttc ttg gaNH2 agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga

84/145-

1131 ine 1132 ine 1133 ine 1136	1137 1138 1139 1140 1141 ine 1142 ine 1143		1152 1153 1154 1155	1157 1158 1159 e 1160	1162 1163 1164
all 2'Ome bases.3' Amine all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine all 2'Ome bases 3'Amine 3'2 bases 2'Ome, 3'Amine	3' Amine 5' 10 bases are 2'Ome all 2'Ome bases,3' Amine all 2'Ome bases,3' Amine 3'2 bases 2'Ome, 3'Amine	3' Amine 5' 10 bases <mark>2'Ome</mark> 3'2 bases 2'Ome , 3'Amine	3' Amine all 2'Ome bases 3'base 2'Ome , 3'Amine	3' Amine 3'base 2'Ome , 3'Amine	3' Amine
gat acc aca gag aat gaa tttt tcc aag aat cag tga aga tgg agg cg NH2 tcc aag aat cag tga aga tgg agg cgt gNH2 g aat cag tga aga tgg agg cg cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc cct tgg ctc aat ttt gct NH2 cca ttc aat tcc tga aat taa agt tcg gat att ctc ttg gca cc tga aat taa agt tcg gat att ctc ttg gca cc tga aat taa agt tcg gat att ctc ttg gca agc aaa att gag cca agg gag gcg NH2 agc aaa att gag cca agg gag gcg tgNH2 cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cv3)gcttcctccg	cog toa cgc ctc cat ctt cac tga ttc ttg NH2 ttc tag caa acc cat tca att cct gaa att aaa gtt cgg ata ttc ta cc cat tca att cct gaa att aaa gtt cgg ata ttc ta cc cat tca att cct gaa att aaa gtt cgg ata ttc ta cc at tca att cct gaa att aaa gtt cgg ata ttc ta cca agg gcc aag gag gcg tNH2 cggaagaagcagttggaggcgtgacggcNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc cat ctt cac tga ttc NH2 agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga ttg gat acc aca gag aat gaa tt cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc cat ctt cac tga tt NH2 agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga ctt gga tac cac aga gaa tga att cggaagaagcagttggaggtgacggtNH2 Fcaac(Cy3)gcttcctccg	ccg tca cgc ctc cat ctt cac tga ttc ttg NH2 agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga
stacker arrestor arrestor arrestor SRT FRET probe	probe invader invader invader arrestor SRT	probe invader invader arrestor SRT FRET probe	probe invader stacker SRT FRET probe	probe invader stacker SRT FRET probe	probe invader

invader helper arrestor

COMMINGS CONTINUE

SRT FRET probe	cggaagaagcagttggaggcgtgacgg t NH2 Fcaac(Cy3)gcttcctccg	3'base 2'Ome , 3'Amine	1166
SRT FRET probe	cggaagaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg	3' Amine	1168
SRT FRET probe	cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	3'base 2'Ome , 3'Amine	1170
SRT FRET probe	ccaggaagcaagtggaggcgtgac gg u Fcac(Z21)tgcttcgtgg	3' 3bases 2'Ome	1172
SRT FRET probe	cggaggaagcagttggtgatctcggc gg NH2 Fcaac(Cy3)gcttcctccg	3' 2 last base 2' Ome , 3' Amine	1174
SRT FRET probe	cggaagaagcagttggagggggggacg gc NH2 Fcaac(Cy3)gcttcctccg	3'2 bases <u>2'Ome,</u> 3'Amine	1176
SRT FRET probe	ccaggaagcaagtggtgcgcctcgttt Fcac(Z21)tgcttcgtgg	3' last 3 bases 2'Ome	1178
SRT FRET probe	cggaggaagcagttggtgcgcctc gttaaNH2 Fcaac(Cy3)gcttcctccg	3' last5 bases 2'Ome	1180
SRT FRET probe	cggaggaagcggttggtgatctcggcgg ca NH2 Fcaac(Cy3)gcttcctccg	3' Last 2bases 2'Ome, 3' Amine	1182
SRT FRET probe	gctactgagatgaaggagacgtgactgtaNH2 Fcttc(Cy3)tctcagtagc	3' Amine	1184
SRT FRET probe	ccaggaagcagttggaggcgtgacgg tNH2 Fcaac(Cy3)gcttcgtgg	3' 2 bases 2'Ome , 3'Amine	1186
h3A4 probe h3A4 invader Capture Sequence	agg agc cac tcc att gga tga agc atg tac aga atc ccc ggt tat tta tgc aga		1189

CUBERTS CERT

h3A4 probe	\$ef	1190
h3A4 invader Capture Sequence	tot aa	
Set 2/Set 3 h3A4 probe h3A4 arrestor h3A4 invader h3A4 stacking oligo h3A4 stacking oligo SRT FRET Oligo	AAC GAG GCG CAC CAC AGA CAA TGA GAG CTCTCATTGTCTGTGGGGG-NH2 cct cct tta tat tcc caa gta taa cac tct aa agctcaatgcatgtacagaatccccgg agctcaatgcatgtacagaatccccgg	1192 1193 1195 1196
Set 4 h3A4 probe h3A4 arrestor h3A4 invader h3A4 stacking oligo SRT FRET Oligo	aac gag gcg cac cac aga caa tga gag ag-NH2 ctc tct cat tgt ctg tgg tgc g-NH2 cct cct tta tat tcc caa gta taa cac tct aa ctc aat gca tgt aca gaa tcc ccg gtt	1197 1198 1199 1200
Set 5 h3A4 probe h3A4 arrestor h3A4 invader	aac gag gcg cac cac aga caa tga gag agc t-NH2 agc tct ctc att gtc tgt ggt gcg -NH2 cct cct tta tat tcc caa gta taa cac tct aa	1201 1202 1203
SRT FRET probe	FL-caa-c(cy3)g-ctt-cct-ccg	1204
Set 6 h3A4 probe h3A4 arrestor h3A4 invader	aac gag gcg cac cac aga caa tga gag agc-NH2 gct ctc tca ttg tct gtg gtg cg -NH2 cct cct tta tat tcc caa gta taa cac tct aa	1205 1206 1207
SKI FRET probe	FL-caa-c(cy3)g-ctt-cct-ccg	1208
Set 7/Set 8 h3A4 probe h3A4 probe h3A4 arrestor h3A4 stacking oligo	aac gag gcg cac cac aga caa tga gag a-NH2 aac gag gcg cac cac aga caa tga gag a tct ctc att gtc tgt ggt gcg c-NH2 gct caa tgc atg tac aga atc ccc ggt t	1209 1210 1211

the true can be for the control to t	
cct cct tta tat tcc caa gta taa cac tct aa	1213
aac gag gcg cac cac aga caa tga ga-NH2 tct cat tgt ctg tgg tgc gc-NH2 cct cct tta tat tcc caa gta taa cac tct aa gag ctc aat gca tgt aca gaa tcc ccg	1214 1215 1216 1217
AACGAGGCGCACCTCTTATCAGAGCTC AACGAGGCGCACCTCTTATCAGAGCTC-NH2 ttg tgg agg aaa tta ttg aga aat gtt gat ta GAGCTCTGATAAGAGGTGCG-NH2	1218 1219 1220 1221
cog tca cgc ctc gcc cca ca - NH2 tgt ggg gcg agg cg cag cac agg ctg ttg acc atc ata aaa c cuu-uuc-cau-acu-uuu-uau-gac-auu-c ctt ttc cag act ttt tat gac att c ctt ttc cag act ttt tat gac	1222 1223 1224 1225 1226
ccg tca cgc ctc gcc cca ca ccg tca cgc ctc gcc cca ca - HEX cag cac agg ctg ttg acc atc ata aaa c cuu-uuc-cau-acu-uuu-uau-gac-auu-c	1228 1229 1230 1231

h3A4 stacking oligo

FRET Oligo

SRT

h3A4 arrestor h3A4 invader

h3A4 probe

Set 9

h3A4 invader

FRET Oligo

SRT

SRT

h3A4 stacking oligo

h3A4 invader

h3A4 probe h3A4 probe

Set 4/Set 5

FRET

SRT

h3A4 stacking oligo h3A4 stacking oligo h3A4 stacking oligo

Set 1/ Set 2/ Set 3

h3A4 arrestor h3A4 invader

h3A4 probe

h3A4 invader h3A4 arrestor SRT

h3A4 probe

h3A4 probe

Set 1/Set 2

ccg tca cgc ctc gcc cca cc - NH2

1232

Set 6/ Set 7/ Set 8 h3A4 probe FRET

h3A4 probe h3A4 probe h3A4 arrestor h3A4 invader h3A4 stacking oligo SRT FRET	ccg tca cgc ctc gcc cca cg - NH2 ccg tca cgc ctc gcc cca ct - NH2 tgt ggg gcg agg cg cag agg cg cag agg cg ag cc cag cac agg ctg ttg acc atc ata aaa c cuu-uuc-cau-acu-uuu-uau-gac-auu-c	1233 1234 1235 1236 1237
Set 1 h3A4 probe h3A4 arrestor h3A4 invader h3A4 stacking oligo SRT FRET	ccg tca cgc ctg atc ata aaa gcc c -NH2 ggg ctt tta tga tca ggc g cag cac agg ctg ttg acc c cac act ttt cca tac ttt tta tg	1238 1239 1240 1241
Set 2 h3A4 probe h3A4 arrestor h3A4 invader h3A4 stacking oligo SRT FRET	aac gag gcg cac cca ttg gat gaa g - NH2 ctt cat cca atg ggt gcg c gta cag aat ccc cgg tta ttt atg cag ta ccc atc ttc att tca gag	1242 1243 1244 1245
Set 1 h3A5 probe h3A5 invader Capture Sequence	gtg gcg tat cgt gtc taa ttt caa g aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1246 1247
Set 2/Set 3 h3A5 probe h3A5 probe h3A5 arrestor h3A5 invader SRT FRET	AACGAGGCGCACCGTGTCTAATTTCAAG AACGAGGCGCACCGTGTCTAATTTCAAGGG-Pi CTTGAAATTAGACACGGTGCG-NH2 aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1248 1249 1250 1251
Set 4 h3A5 probe h3A5 arrestor	AACGAGGCGCACCGTGTCTAATTTCAAG CTTGAAATTAGACACGGTGCG-NH2	1252 1253

1254	1256 1257 1258 1259	1260 1261 1262 1263	1264 1265 1266 1267 1268	1270 1271 1272 1273
aat ggg ttt ttc tgg ttg aag aag tcc ttg a ggg atc tgt gtt tct tta caa ggt	AACGAGGCGCACCGTGTCTAATTTCAAG ctt gaa att aga cac ggt tct c ggt tit tct ggt tga aga agt cct tga ggg atc tct gtt tct	AACGAGGCGCACCGTGTCTAATTTCAAGGG-NH2 CCCTTGAAATTAGACGCTGCG-NH2 aat ggg ttt ttc tgg ttg aag aag tcc ttg a	aac gag gcg cac cgt gtc taa ttt caa gg-NH2 aac gag gcg cac cgt gtc taa ttt caa gg cct tga aat tag aca cgg tgc gc-NH2 cct tga aat tag aca cgg tgc gc aat ggg ttt ttc tgg ttg aag aag tcc ttg a gga tct gtg ttt ctt tac aag gtt tga agg ag	aac gag gcg cac cgt gtc taa ttt caa-NH2 ttg aaa tta gac acg gtg cgc-NH2 aat ggg ttt ttc tgg ttg aag aag tcc ttg a ggg gat ctg tgt ttc ttt aca agg
h3A5 invader h3A5 stacking oligo SRT FRET	Set 5 h3A5 probe h3A5 arrestor h3A5 invader ch3A5 stacking oligo SRT FRET	Set 6 h3A5 probe h3A5 arrestor h3A5 invader SRT FRET probe	Set 7/Set 8 h3A5 probe h3A5 arrestor h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET	Set 9 h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT

SRT FRET FRET Set 10 h3A5 probe

aac gag gcg cac cgt gtc taa ttt ca - NH2

1275 1276 1277 1278	1279	1281 1282 1283	1284 1285 1286	1287 1288 1289	1290 1291 1293 1293
tga aat tag aca cgg tgc gc ggt ttt tct ggt tga aga agt cct tga agg gga tct gtg ttt ct	tgg cgt atc tga ccc ttt ggg aat gaa gag cat aag ttg gaa tca cca ta	ata cgg tig gic cic tica agri cia ccc cat tga tit caa cat cit tot tgc aac aac gag gcg cac gcg tgt cta att tc - NH2	gaa att aga cac gcg tgc gc ggt ttt tct ggt tga aga agt cct tc ccg ggg atc tgt gtt tc	ccg tca cgc ctc gcg tgt cta att tc -NH2 gaa att aga cac gcg agg cg ggt ttt tct ggt tga aga agt cct tc ccg ggg atc tgt gtt tc	aac gag gcg cag ttc ata cgt tcc -NH2 gga acg tat gaa ctg cgc cca gca cag gga gtt gac ca cca cat ttt tcc ata ctt t
h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET	h3A5 probe h3A5 invader Capture Sequence Set 1	h3A5 probe h3A5 invader Capture Sequence Set 2/Set 3 h3A5 probe	h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET	h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET	Set 1 h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET Set 2

1294 1295 1296 1297	1298 1299 1300 1301 1303 1304	1305 1306 1307 1308	1309 1310 1311 1312
ccg tca cgc ctg ttc ata cgt tcc -NH2 gga acg tat gaa cag gcg cca gca cag gga gtt gac ca cca gca ttt tcc ata ctt t	aac gag gcg cac agt tga cct tca aac gag gcg cac agt tga cct tca aac gag gcg cac agt tga cct tca - HEX tga agg tca act gtg cgc gtg atg gcc agc aca ggg c tac gtt ccc cac att ttt c tac gtt ccc cac att ttt c	ccg tca cgc ctc agt tga cct tca tga agg tca act gag gcg gtg atg gcc agc aca ggg c tac gtt ccc cac att ttt c	aac gag gcg cac tcc tct caa gt -NH2 act tga gag gag tgc gc cca ttg att tca aca tct ttc ttg caa ga cta ata gca act ggg aat aat c
h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET	Set 1-Set 4 h3A5 probe h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo h3A5 stacking oligo SRT	Set 5 h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT FRET	Set 6 h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT

92/145

Set 7 h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT

act tga gag gag agg cg cca ttg att tca aca tct ttc ttg caa ga cta ata gca act ggg aat aat c

ccg tca cgc ctc tcc tct caa gt - NH2

DUSE HE DE CESULO.

FRET

Set 8 h3A5 probe h3A5 arrestor h3A5 invader h3A5 stacking oligo SRT	aac gag gcg cac agt tga cct tc - NH2 tga agg tca act gtg cgc gtg atg gcc agc aca ggg c ata cgt tcc cca cat ttt tc	1317 1318 1319 1320
Set 1 h3A7 Probe h3A7 Invader Capture Oliog	tgg cgt atc tgg att aaa tct taa aag gac ttt tat tga gag aac gaa tgg atc taa a	1321 1322
Set 2 h3A7 Primary Probe h3A7 Invader h3A7 Arrestor SRT FRET	AACGAGGCGCACTGGATTAAATCTTAAAAG gac ttt tat tga gag aac gaa tgg atc taa a CTTTTAAGATTTAATCCAGTGCG- NH2	1323 1324 1325
Set 3 h3A7 Primary Probe h3A7 Invader h3A7 Arrestor h3A7 Stacking Oligo SRT	AACGAGGCGCACTGGATTAAAATG gac ttt tat tga gag aac gaa tgg atc taa a CTTTAAGATTTAATCCAGTGCG-NH2 ctt ctt ggt gtt ttc ca	1326 1327 1328 1329
Set 4 h3A7 Probe h3A7 Invader oligo Capture Oligo	agg agc cac tca tcc ctt gac t ctt agg gaa atc agg ctc cac tta cgg ta	1330 1331
Set 5/Set 6 h3A7 Primary Probe h3A7 Primary Probe h3A7 Arrestor h3A7 Invader oligo	AACGAGGCGCACCTCATCCCTTGACT AACGAGGCGCACCTCATCCCTTGACT-NH2 AGTCAAGGGATGAGGTGCG-NH2 ctt agg gaa atc agg ctc cac tta cgg ta	1332 1333 1334 1335

SRT FRET

Set 7 - Set 10 h3A7 Primary Probe h3A7 Arrestor h3A7 Invader oligo h3A7 Stacking Oligo h3A7 Stacking Oligo h3A7 Stacking Oligo SRT FRET	aac gag gcg cac ctc atc cct tga c-NH2 gtc aag gga tga ggc g-NH2 ctt agg gaa atc agg ctc cac tta cgg ta tca gcc ttt aga aca atg ggt ttt tct gt ctc agc ctt tag aca at ggg ttt tc t ctc agc ctt tag aac aat ggg ttt tc t ctc agc ctt tag aac aat ggg ttt ttc t ctc agc ctt tag aac aat ggg ttt ttc t	1336 1337 1338 1340 1341 1342
Set 11 h3A7 Primary Probe h3A7 Primary Probe h3A7 Arrestor h3A7 Invader oligo h3A7 Stacking Oligo SRT	aac gag gcg cac ctc atc cct tga-NH2 aac gag gcg cac ctc atc cct tga c tca agg gat gag gtg cgc-NH2 ctt agg gaa atc agg ctc cac tta cgg ta ctc agc ctt tag aac aat ggg ttt ttc tgt tag	1343 1344 1345 1346
Set 1 h3A7 Probe h3A7 Invader Capture Sequence	ata cgg ttg gta aag taa ttt gag gt gaa gcc cgt ctt cat ttc agg gtt cta ttt c	1348 1349
Set 2 h3A7 Primary Probe h3A7 Invader h3A7 Arrestor SRT FRET	AACGAGGCGCACGTAAAGTAATTTGAGGT gaa gcc cgt ctt cat ttc agg gtt cta ttt c ACCTCAAATTACTTTACGTGCG-NH2	1350 1351 1352

94/145

h3A7 Primary Probe h3A7 Invader h3A7 Arrestor h3A7 Stacking Oligo

Set 3

AACGAGGCGCACGTAAAGTAATTTGAGGT

gaa gcc cgt ctt cat ttc agg gtt cta ttt c ACCTCAAATTACTTTACGTGCG-NH2

ctc tgg tgt tct ggg

SRT FRET

Set 1 h3A7 probe h3A7 arrestor h3A7 invader h3A7 stacking oligo SRT FRET	ccg tca cgc ctc gtc ata aat acc cc - NH2 ggg gtc ttt atg acg agg cg gcc agc ata ggc tgt tga cac aga ctt ttc tat act ttt tat aac att c	1357 1358 1359 1360
Set 2 - Set 4 h3A7 probe h3A7 probe h3A7 arrestor h3A7 invader h3A7 stacking oligo SRT	aac gag gcg cac gtc ata aat acc cc -NH2 aac gag gcg cac gtc ata aat acc cc - HEX agg gta ttt atg acg tgc gc gcc agc ata ggc tgt tga cac aga ctt ttc fat act ttt tat aac att c	1361 1362 1363 1364 1365
Set 1 h3A7 probe h3A7 arrestor h3A7 invader h3A7 stacking oligo SRT FRET	ccg tca cgc ctc gat taa atc tta aaa gct t - NH2 aag ctt tta aga ttt aat cga ggc g gac ttt tat tga gag aac gaa tgg atc taa tgc ctt ggt gtt ttc cac aaa g	1367 1368 1369 1370
Set 2 h3A7 probe h3A7 arrestor h3A7 invader h3A7 stacking oligo SRT	aac gag gcg cac gat taa atc tta aaa gct t -NH2 aag ctt tta aga ttt aat cgt gcg c gac ttt tat tga gag aac gaa tgg atc taa tgc ctt ggt gtt ttc cac aaa g	1371 1372 1373 1374

FRET
Set 1
h3A7 probe
h3A7 arrestor

ccg tca cgc ctg tca tcc ctt g - NH2 caa ggg atg cac ggc g

1377 1378	1379 1380 1381 1382	1383 1384 1385 1386	1387	1389 1390 1391 1392
gga aat cag gct cca ctt acg gtc a act cag cct tta gaa caa tg	ccg tca cgc ctc taa agt aat ttg agg tc -NH2 gac ctc aaa tta ctt tag agg cg cgt ctt cat ttc agg gtt cta ttt ga tct ggt gtt ctg gg	aac gag gcg cac taa agt aat ttg agg tc - NH2 gac ctc aaa gga ctt tag tgc gc cgt ctt cat ttc agg gtt cta ttt ga tct ggt gtt ctg gg	tgg-cgt-atc-tag-gct-ttg-ctt-cc ttc atg tag tca ggg tca tag aca att aag a	AACGAGGCGCACTAGGCTTTGCTTCC GGAAGCAAAGCCTAGTGCG-NH2 gga agc aaa gcc tag tgc gc-NH2 ttc atg tag tca tag aca att aag a
h3A7 invader h3A7 stacking oligo SRT FRET	Set 1 h3A7 probe h3A7 arrestor h3A7 invader h3A7 stacking oligo SRT FRET	Set 2 h3A7 probe h3A7 arrestor h3A7 invader h3A7 stacking oligo SRT FRET	Set 1 r4A1 Probe r4A1 Invader Capture Sequence	Set 2 r4A1 Primary Probe r4A1 Arrestor r4A1 Arrestor r4A1 Invader FRET Probe 1

96/145

Set 3 r4A1 Primary Probe r4A1 Arrestor r4A1 Invader SRT FRET Probe 1

aac gag gcg cac tag gct ttg ctt ccc-NH2 ggg aag caa agc cta gtg cgc-NH2 ttc atg tag tca ggg tca tag aca att aag a

1396 1397 1398 1399	1400 1401 1402 1403	1405 1406 1407 1408 1410 1411	1413
aac gag gcg cac tag gct ttg ctt c-NH2 gaa gca aag cct agt gcg c ccc aga acc atc gag gaa agg c ttc atg tag tca ggg tca tag aca att aag a	aac gag gcg cac tag gct ttg ctt-NH2 aag caa agc cta gtg cgc-NH2 ttc atg tag tca ggg tca tag aca att aag a ccc cag aac cat cga gga aag g ccc cag aac cat cga gga aag g	aac gag gcg cac tag gct ttg ct-NH2 aac gag gcg cac tag gct ttg ct - HEX aac gag gcg cac tag gct ttg ct agc aaa gcc tag tgc gc-NH2 agc aaa gcc tag tgc gc-NH2 agc aaa gcc tag tgc gc ttc atg tag tca agg aca att aag a tcc cca gaa cca tcg agg aaa gg tcc cca gaa cca tcg agg aaa gg	ata cgg ttg gtc ttg acc tgc c agg aga tat gtt gaa aga ttt cta tag agg ac
Set 4 r4A1 Primary Probe r4A1 Arrestor r4A1 Stacker r4A1 Invader SRT FRET Probe 1	Set 5 r4A1 Primary Probe r4A1 Arrestor r4A1 Invader r4A1 Stacker SRT FRET Probe 1	Set 6 r4A1 Primary Probe r4A1 Probe r4A1 Arrestor r4A1 Arrestor r4A1 Arrestor r4A1 Arrestor r4A1 Frobe r4A1 Frobe r4A1 Frobe	Set 1 r4A1 Probe r4A1 Invader Capture Sequence

97/145

Set 2 r4A1 Primary Probe r4A1 Arrestor r4A1 Invader

AACGAGGCGCACGTCTTGACCTGCC GCCAGGTCAAGACGTGCG-NH2 agg aga tat gtt gaa aga ttt cta tag agg ac

ISEM 45 45 . O SE 40 4

SRT FRET Probe 1

1418 1419 1420	1421 1422	1423 1424	1425 1426 1427	1428 1429 1430	1431 1432 1433 1434
AACGAGGCGCACGTCTTGACCTGC-Pi GGCAGGTCAAGACGTGCG-NH2 agg aga tat gtt gaa aga ttt cta tag agg ac	tgg cgt atc tta gat gga gta agg a att cct cat aat tca aaa ggg act tag tag gt	AACGAGGCGCACTTAGATGGAGTAAGGA ICCTTACTCCATCTAGTGCG-NH2	aac gag gcg cac tgg ata ccc ttg gg-NH2 ccc aag ggt atc cag tgc gc-NH2 ggt gga gac cat aaa tgg aga gtg tga cta	aac gag gcg cac agg tgt ctg gag taa aag-NH2 ctt tta ctc cag aca cct gtg cgc -NH2 gtc cac gca caa gct ggg ac	aac gag gcg cac aga agg ccc ctt-NH2 aag ggg cct tct gtg cgc-NH2 cct tga aca gca cca gaa ata gac tga gca c gga aga ccc cat cc
Set 3 r4A1 Primary Probe r4A1 Arrestor r4A1 Invader SRT FRET Probe 1	Set 1 r4A1 Probe r4A1 Invader	Set 2 r4A1 Primary Probe r4A1 Arrestor SRT FRET Probe 1	Set 1 r4A1 Primary Probe r4A1 Arrestor r4A1 Invader SRT FRET Probe 1	Set 1 r4A2 Probe r4A2 Arrestor r4A2 Invader SRT FRET Probe 1	Set 1 r4A2 Probe r4A2 Arrestor r4A2 Invader r4A2 stacking oligo SRT

FRET Probe 1

Set 2		1
r4A2 Probe r4A2 Arrestor	ccg tca cgc ctc aga agg ccc ctt-NH2 aag ggg cct tct gag gcg-NH2	1435
r4A2 Invader	cct tga aca gca cca gaa ata gac tga gca c	1437
FRET Probe 1		
Set 3		
r4A2 Probe	aac gag gcg cac aga agg ccc ctt g-NH2	1438
r4A2 Arrestor	<u>caa ggg gcc ttc tgt gcg c</u> -NH2 cct toa aca cca caa ata gac toa gca c	1440
SRT		
FRET Probe 1		
Set 4		•
r4A2 Probe	aac gag gcg cac aga agg ccc ctt gg-NH2	1441
r4A2 Probe	aac gad gcd cac aga agg ccc ctt	1442
r4A2 Probe	aac gag gcg cac aga agg ccc ctt - HEX	1443
r4A2 Arrestor	cca add ggc ctf ctg tgc gg-NH2	1444
r 442 Arrestor	aan dad oot tot ata oo	1445
r4A2 Invader	cot toa aca goa coa gaa ata gac tga goa c	1446
SRT		
FRET Probe 1		
Set 1		1
r4A3 Probe	aac gag gcg cac ttg aca gag tcc gc-NH2	1447
r4A3 Arrestor	gcg gac tot gtc aag tgc gc-NH2	0 7 7
r4A3 Invader	gct tct ccc att tgt cta gca tta taa	4 1 6

r4A3 Arrestor r4A3 Invader r4A3 stacking oligo SRT FRET Probe 1

r4A3 Probe Set 2

r4A3 Invader SRT FRET Probe 1

aac gag gcg cac ttg aca gag tcc g-NH2
cgg act ctg tca agt gcg c-NH2
gct tct ccc att tgt cta gca tta taa
cca tga ttt tga cat agg gtt tga gga tg

1450 1451 1452 1453

1454 1455 1456 1457 1459 1460	1461	1463 1464 1465	1466	1468 1469 1470 1471
aac gag gcg cac ttg aca gag tcc-NH2 aac gag gcg cac ttg aca gag tcc aac gag gcg cac ttg aca gag tcc - HEX gga ctc tgt caa gtg cgc-NH2 gga ctc tgt caa gtg cgc gct tct ccc att tgt cta gca tta taa gcc atg att ttg aca tag ggt ttg agg atg	ogg agc ctc tgc ggt cat caa g tgg ata act gca tca gtg tat ggc att tta a	gtg-gcg-tat-ctg-cgg-tca-tca-ag gtg-gcg-tat-ctg-cgg-tca-tca-a tgg ata act gca tca gtg tat ggc att tta a	tg-gcg-tat-ctg-cgg-tca-tca-a tgg ata act gca tca gtg tat ggc att tta a	aac-gag-gcg-cac-ctg-cgg-tca-tca-a ttg-atg-acc-gca-ggt-gcg-cc-NH2 ttg-atg-acc-gca-ggt-gcg-cc-Pi ttg-atg-acc-gca-ggt-gcg-cc-OH tgg ata act gca tca gtg tat ggc att tta a
Set 3 r4A3 Probe r4A3 Probe rCYP 4A3 Probe rAA3 Arrestor rCYP 4A3 Arrestor r4A3 Invader r4A3 stacking oligo SRT FRET Probe 1	Set 1 r2B1 probe r2B1 invader Capture Sequence	Set 2/ Set 3 r2B1 probe r2B1 probe r2B1 invader Capture Sequence	Set 4 r2B1 probe r2B1 invader Capture Sequence	Set 5 - Set 7 r2B1 probe r2B1 arrestor r2B1 arrestor r2B1 arrestor r2B1 invader SRT FRET

7281 in 1281 in SRT SRT FRET FRET Set 8 7281 probe

aac-gag-gcg-cac-ctg-cgg-tca-tca-a

1474	1477	1480	1483	1486
1475	1478	1481	1484	1487
1476	1479	1482	1485	1488
ttg-atg-acc-gca-ggt-gcg-cc-Pi	aac-gag-gcg-cac-ctg-cgg-tca-tca-a-NH2	ggc-aac-gag-gca-cac-ctg-cgg-tca-tca-ag-Pi	aac gag ggg cac ctg cgg tca tca ag-NH2	aac gag gcg cac ctg cgg tca tca agg-NH2 cct tga tga ccg cag gtg cg-NH2 tgg ata act gca tca gtg tat ggc att tta a
tgg ata act gca tca gtg tat ggc att tta a	ttg-atg-acc-gca-ggt-gcg-NH2.	ttg-atg-acc-gca-ggt-gcg-cc -Pi	ctt gat gac cgc agg tgc c-NH2	
ggg ttg gta gcc tgt gtg agc cga t	tgg ata act gca tca gtg tat ggc att tta a	tgg ata act gca tca gtg tat ggc att tta a	tgg ata act gca tca gtg tat ggc att tta a	
r2B1 arrestor r2B1 invader r2B1 stacker SRT FRET	Set 9 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET	Set 10 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET	Set 11 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET	Set 12 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET

101/145

Set 13 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET

atg acg tga cag acc tgc ggt cat caa g-NH2 ctt gat gac cgc agg tct gt-NH2 tgg ata act gca tca gtg tat ggc att tta a

1492 1493 1494	1495 1496 1497	1498 1499 1500	1501 1502 1503 1504
aac gag gcg cac ctg agg tca tca a-NH2 ttg atg acc tca ggt gcg -NH2 tgg ata act gca tca gtg tat ggc att tta a	cag tca cgt ctc ctg cgg tca tca ag-NH2 ctt gat gac cgc agg aga cg-NH2 tgg ata act gca tca gtg tat ggc att tta a	cag tca cgt ctc act gcg gtc atc aag-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c ctt gat gac cgc agt gag acg-NH2	cag tca cgt ctc act gcg gtc atc aa-NH2 ttg atg acc gca gtg aga cg-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c ggg ttg gta gcc tgt gtg agc cga t
Set 14 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET	Set 15 r2B1 probe r2B1 arrestor r2B1 invader SRT FRET	Set 16 r2B1 probe r2B1 invader r2B1 arrestor SRT FRET	Set 17 r2B1 probe r2B1 arrestor r2B1 invader r2B1 stacker SRT FRET

r2B1 stacker SRT FRET FRET Set 19 r2B1 probe

cag tca cgt ctc act gcg gtc atc aag-NH2

tga tga ccg cag tga gac g-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c agg gtt ggt agc ctg tgt gag ccg a

Set 18
r2B1 probe
r2B1 arrestor
r2B1 invader
r2B1 stacker
SRT
FRET

cag toa cgt ctc act gcg gtc atc a-NH2

1509

COKS 45 S5 C5C4C4

1510 1511 1512	1513 1514 1515 1516	1517 1518 1519 1520	1521 1522 1523 1524	1525
ctt gat gac cgc agt gag acg-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c ggt tgg tag cct gtg tga gcc gat c	cag tca cgt ctc act gcg gtc at-NH2 atg acc gca gtg aga cg-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c caa ggg ttg gta gcc tgt gtg agc c	ccg tca cgc ctc act gcg gtc atc a-NH2 tga tga ccg cag tga ggc g-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c agg gtt ggt agc ctg tgt gag ccg a	ccg tca cgc ctc act gcg gtc atc-NH2 gat gac cgc agt gag gcg-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c aag ggt tgg tag ccg gtg tg	
r2B1 arrestor r2B1 invader r2B1 stacker SRT FRET	Set 20 r2B1 probe r2B1 arrestor r2B1 invader r2B1 stacker SRT FRET	Set 21 r2B1 probe r2B1 arrestor r2B1 invader r2B1 stacker SRT FRET	Set 22 r2B1 probe r2B1 arrestor r2B1 invader r2B1 stacker	Set 23

103/145

Set 1 r2B1 invader r2B1 probe

r2B1 invader r2B1 stacker SRT FRET

r2B1 arrestor r2B1 probe r2B1 probe

atg gtg tct ttg gtg act ctg tgt ggt aca aac-gag-gcg-cac-tcc-aat-agg-gac-aag

1530 1531

1525 1526 1527 1528 1529

ccg tca cgc ctc act gcg gtc at-NH2 ccg tca cgc ctc act gcg gtc at atg acc gca gtg agg cg-NH2 gtg gat aac tgc atc agt gta tgg cat ttt c caa ggg ttg gta gcc tgt gtg agc c

r2B1 arrestor SRT FRET	ctt-gtc-cct-att-gga-gtg-cgc-c	1532
Set 1 r2B1 probe r2B1 invader Capture Sequence	gcg gcg tac agc cgg tgt gag c cat ttt act gcg gtc atc aag ggt tgg tc	1533 1534
r2B1 probe r2B1 invader Capture Sequence	tgg cgt atg agc cgg tgt gag c cat ttt act gcg gtc atc aag ggt tgg tc	1535 1536
Set 1 r2B2 invader r2B2 probe r2B2 arrestor SRT FRET	gga tga ctg cat cag tgt atg gca ttt tgc aac-gag-gcg-cac-gta-cga-tca-agg cct-tga-tga-tcg-tac-gtg-cgc-c -NH2	1537 1538 1539
Set 1 r2B2 invader r2B2 probe r2B2 stacker r2B2 invader stacker	atg gtg tct ttg gtg act ctg tgt ggt aac tgg cgt atg acc aat tgg ggc aa gat ctg caa atc tct gaa tct cgt gga tg tct tgg aga gca ggt acc ctc gga ac	1540 1541 1542 1543
Set 2 r2B2 probe r2B2 invader r2B2 stacker r2B2 invader stacker	tgg cgt atg acc aat tgg ggc aag atg gtg tct ttg gtg act ctg tgt ggt aac atc tgc aaa tct ctg aat ctc gtg gat ga tct tgg aga gca ggt acc ctc gga ac	1544 1545 1546 1547

104/145

Set 3 r2B2 probe r2B2 probe r2B2 arrestor r2B2 invader SRT FRET

aac-gag-gcg-cac-acc-aat-tgg-ggc-aag aac gac gcg cac acc aat tgg ggc aag ctt-gcc-cca-att-ggt-gtg-cgc-c-NH2 atg gtg tct ttg gtg act ctg tgt ggt aac

1548 1549 1550 1551

anc-gag-gog-cac-aat-tgg-ggg-aag-Pi atg gtg tct ttg gtg act ctg tgt ggt ac act-gcc_cca_att_ggt_gtg_cgc_cc_Pi atg gtg tct ttg gtg act ctg tgt ggt ac ac-gag-gog-cac-acc-aat-tgg-ggg-caa-NH2 atg gtg tct ttg gtg act ctg tgt ggt ac act ggg act ctg gg act ctg tgt ggt ac act ggg act ctg gg act ctg tgt ggt ac act ggg gcg cac act cgt gg ggt ac act ggg gcg cac act at tgg ggc aag atc-NH2 atg gtg tct ttg gtg act ctg tgt ggt ac act ggg gcg cac act act tgg ggc aag atc-NH2 agg gtg tct ttg gtg act ctg tgt ggt ac act ggg gcg cac act act tgg ggc aag-NH2 atg gtg tct ttg gtg act ctg tgt ggt ac act gag gcg cac act tcg ggg acg-NH2 atg gtg tct ttg gtg act ctg tgt ggt ac act ggg ggg cac act act tgg ggt acc act ggg ggg cac act act tgg ggt acc act ggg ggg cac act act ggg ggt acc act ggg ggg cac act act ggg ggt acc act ggg ggg cac act act ggg ggt acc act ggg ggg cac act act ggg ggt acc act ctg ggg ggg cac act cac ggg gat gac act ggg ggg cac act cac ggg ggg acc act ctg ggg gat ctg ggg gat ggg act ctg ggg gat ctg ggg gat gac act ggg ggg cac act cac ggg ggg gat gac act ggg ggg cac act cac ggg ggg acc ggg ggg acc ggg ggg acc ggg ggg	1552 1553 1554	1555 1556 1557 1558	1559 1560 1561	1562 1563 1564	1565 1566 1567 1568	1569
e-gag-gcg-cac-acc-aat-tgg-ggc-aag-Pi gtg tct ttg gtg act ctg tgt ggt aac -gag-gcg-cac-att-ggt-ggc-a-Pi gtg tct ttg gtg act ctg tgt ggt aac -gag-gcg-cac-acc-aat-tgg-ggc-aag-NH2 gtg tct ttg gtg act ctg tgt ggt aac tgc aaa tct ctg aat ctc gtg gat ga -gac-gag-gca-cac-caa-ttg-ggg-caa-g -gcc-cca-att-ggt-gtg-cgc-c-NH2 gtg tct ttg gtg act ctg tgt ggt aac c gag gcg cac acc aat tgg ggc aag atc-NH2 t ctt gcc cca att ggt gtg ca-NH2 gtg tct ttg gtg act ctg tgt ggt aac c gag gcg cac acc aat tgg ggc aag-NH2 gtg tct ttg gtg act ctg tgt ggt aac c gag gcg cac acc aat tcg ggc aag-NH2 gtg tct ttg gtg act ctg tgt ggt aac c gag gcg cac acc aat tcg ggc aag-NH2 gtg tct ttg gtg act ctg tgt ggt aac c gag gcg cac acc aat tcg ggc aag-NH2 gtg tct ttg gtg act ctg tgt ggt aac stgc caa att ctg aat ctc gtg gat ga c gag gcg cac acc act tcg ggc aag-NH2 gtg tct ttg gtg act ctg tgt ggt aac stgc caa att ctg aat ctc gtg gat ga						
ege-cca-att-ggt-gtg-cgc-c-Pi gtg tct ttg gtg act ctg tgt ggt aac egec cca att ggt gtg cg-NH2 egg tct ttg gtg act ctg tgt ggt aac tgc aaa tct ctg aat ctg tgt ggt aac tgc aaa tct ctg aat ctc gtg gat ga egec-cca-att-ggt-cgc-c-NH2 gtg tct ttg gtg act ctg tgt ggt aac tgc aaa tct ctg aat ctg tgt ggt aac egec-cca-att-ggt-gtg-cgc-c-NH2 gtg tct ttg gtg act ctg tgt ggt aac ggg gcg cac acc aat tgg ggc aag atc ggg tct ttg gtg act ctg tgt ggt aac ggg tct ttg gtg act ctg tgt ggt aac tgc aaa tct ctg aat ctc gtg gat ga gtg tct ttg gtg act ctg tgt ggt aac tgc aaa tct ctg aat ctc gtg gat ga	,	H2		-NH2	4	
TAIN ARDO SADO BADO MADOS M	aac-gag-gcg-cac-acc-aat-tgg-ggc-aag-Pi ctt-gcc-cca-att-ggt-gtg-cgc-c -Pi atg gtg tct ttg gtg act ctg tgt ggt aac	ctt gcc cca att ggt gtg cg- NH2 aac-gag-gcg-cac-acc-aat-tgg-ggc-aag-N atg gtg tct ttg gtg act ctg tgt ggt aac atc tgc aaa tct ctg aat ctc gtg gat ga	ggc-aac-gag-gca-cac-caa-ttg-ggg-caa-g ctt-gcc-cca-att-ggt-gtg-cgc-c -NH2 atg gtg tct ttg gtg act ctg tgt ggt aac	aac gag gcg cac acc aat tgg ggc aag atc gat ctt gcc cca att ggt gtg cg -NH2 atg gtg tct ttg gtg act ctg tgt ggt aac	aac gag gcg cac acc aat tcg ggc aag-NH ctt gcc cga att ggt gtg cg -NH2 atg gtg tct ttg gtg act ctg tgt ggt aac atc tgc aaa tct ctg aat ctc gtg gat ga	cag tca cgt ctc atg gtg gcc tgt g-NH2

1570 1571	1572 1573 1574 1575	1576 1577 1578 1579	1580	1581 1582 1583 1584 1585	1586 1587 1588 1589
atc atc aag ggc gac_g -NH2	cc aat cac ctg-NH2 gt ggc ctg tgc <u>lag acg</u> -NH2 ttt ctc tgc g	cc aat cac ct-NH2 gt ggc ctg tgc <u>aga cg-</u> NH2 ctt tct ctg c	aga gcc aat cac ct-NH2	cc aat cac c-NH2 gac g-NH2 igt ggc ctg tgc I ctt tct ctg c act ttc tct gc	oc aat cac-NH2 acg -NH2 gac ttt ctc tgc g ggt ggc ctg tgc
gta tgg cat ttt ggt acg atc atc aag ggc cac agg cca cca tga gac g-NH2	cag toa cgt ctc aga gcc aat cac ctg-NH2 cga toa toa agg gat ggt ggc ctg tgc cag gtg att ggc tct gag acg-NH2 atc aat ctc ctt ttg gac ttt ctc tgc g	cag tca cgt ctc aga gcc aat cac ct-NH2 cga tca tca agg gat ggt ggc ctg tgc agg tga ttg gct ctg aga cg-NH2 gat caa tct cct ttt gga ctt tct ctg c	FAIM-cag tca cgt ctc aga gcc	cag tca cgt ctc aga gcc aat cac c-NH2 ggt gat tgg ctc tga gac g-NH2 cga tca tca agg gat ggt ggc ctg tgc gat caa tct cct ttt gga ctt tct ctg c tga tca atc tcc ttt tgg act ttc tct gc	cag tca cgt ctc aga gcc aat cac-NH2 gtg att ggc tct gag acg-NH2 ctg atc aat ctc ctt ttg gac ttt ctc tgc g cga tca tca agg gat ggt ggc ctg tgc
r2B2 invader r2B2 arrestor SRT FRET	Set 10 r2B2 probe r2B2 invader r2B2 arrestor r2B2 stacker SRT FRET	Set 11 r2B2 probe r2B2 invader r2B2 arrestor r2B2 stacker SRT FRET	Set 12 r2B2 probe	Set 13 / Set 14 r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker r2B2 stacker SRT FRET	Set 15 r2B2 probe r2B2 arrestor r2B2 stacker r2B2 invader SRT FRET

1590 1591 1592 1593	1594 1595 1596 1597	1598 1599 1600	1602 1603 1604 1605	1606 1607 1608 1609 1610
gc aat cac ct-NH2 1ga cg -NH2 gt ggc ctg tgc ctt tct ctg c	gc aat cac ctg-NH2 gag acg -NH2 igt ggc ctg tgc : ttt ctc tgc g	gcc aat cac ct-NH2 agg cg-NH2 ggt ggc ctg tgc a ctt tct ctg c	gcc aat cac c-NH2 ggc g-NH2 ggt ggc ctg tgc I act ttc tct gc	gcc aat cac-NH2 gcc aat cac gcg -NH2 ggt ggc ctg tgc g gac ttt ctc tgc g
cag tca cgt ctc aga ggc aat cac ct-NH2 agg tga ttg cct ctg aga cg-NH2 cga tca tca agg gat ggt ggc ctg tgc gat caa tct cct ttt gga ctt tct ctg c	cag tca cgt ctc aga ggc aat cac ctg-NH2 cag gtg att gcc tct gag acg-NH2 cga tca tca agg gat ggt ggc ctg tgc atc aat ctc ctt ttg gac ttt ctc tgc g	ccg tca cgc ctc aga gcc aat cac ct-NH2 agg tga ttg gct ctg agg cg-NH2 cga tca tca agg gat ggt ggc ctg tgc gat caa tct cct ttt gga ctt tct ctg c	ccg tca cgc ctc aga gcc aat cac c-NH2 ggt gat tgg ctc tga ggc g-NH2 cga tca tca agg gat ggt ggc ctg tgc tga tca atc tcc ttt tgg act ttc tct gc	ccg tca cgc ctc aga gcc aat cac-N-ccg tca cgc ctc aga gcc aat cac gtg att ggc tct gag gcg-NH2 cga tca tca agg gat ggt ggc ctg tgc ctg atc aat ctc ctt ttg gac ttt ctc tgc
Set 16 r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker SRT FRET	Set 17 r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker SRT FRET	Set 18 r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker SRT FRET	Set 19 r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker SRT FRET	Set 20-21 r2B2 probe r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker

Set 22 r2B2 probe r2B2 invader r2B2 arrestor SRT FRET	cag tca cgt ctc atg gtc aaa gta ctg tgg-NH2 gga agt gct cag gat tga agg tgt ctg gc cca cag tac ttt gac cat gag acg-NH2	1611 1612 1613
Set 23 r2B2 probe r2B2 arrestor r2B2 invader SRT FRET	aac gag gcg cac atg gtc aaa gta ctg tgg-NH2 cca cag tac ttt gac cat gtg cgc -NH2 gga agt gct cag gat tga agg tgt ctg gc	1614 1615 1616
		1617
r2B2 probe r2B2 invader	cat acg gtt ggg cct gtg aga gc cat ttt ggt acg atc atc aag gga tgg tc	1618
	of a control and the control a	1619
r3A1 probe	agg agc cac ggg icc caa aic Florg can and for caa afc	1620
r3A1 probe	FL-agg agc cac ggg icc caa aic too oot att tot taa aaa atc cat ata taa	1621
SAI IIVadei	וכר כרו קוו וכן ועם משם פוני כרו פיני פונים פיני פונים פיני פונים בינים פינים פונים בינים פינים	1622
r3A1 probe	ר-ונען נעון מעו מעו על פער מער כי מער כי מער בי מער ב	1623
r3A1 proper	catetta-das-ccc-dat-dca-cc-NH2	1624
r3A1 prohe	aac-dac-cca-cca-ctc-cca-aat-c-NH2	1625
r3A1 probe	cat-ctt-cqc-qqa-cqq-qtc-cca-aat-c - NH2	1626
r3A1 arrestor	nga ttt gag acc cgt ccg cga - NH2	1627
r3A1 arrestor	gga-ttt-ggg-acc-cgt-ccg-cg -NH2	1628
r3A1 arrestor	gga ttt ggg acc cgt ccg c - NH2	1629 1630
r3A1 arrestor	gga ttt ggg acc cgt ccg - NH2	1030
r3A1 arrestor	gat-ttg-gga-cc-ggt-gcg-c-NH2	1631
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-NH2	1000
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gc-NH2	1633
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-cct-NH2	1034 1635
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-cct-c-NH2	200
r3A1 probe		
r3A1 probe	aac gag gcg cac cgg gtc cca aat c-Pi	1636

toc cot git tot tga aaa gto cat gtg tga	163/
aac gag gcg cac cgg gtc cca aat c-NH2	0000 0001
gat ttg gga ccc ggt gcg-NH2	1600
aac gag gcg cac cgg gtc cca aat c-NH2	
gga ttt ggg acc cgg tgc gc-NH2	104-
aac gag gcg cac cgg gtc cca aat-NH2	2401
att tgg gac ccg gtg cgc-NH2	1040
ccg tag agg agc acc agg acg	770
aac gag gcg cac cgg gtc cca aa-NH2	1045
ttt ggg acc cgg tgc gc-NH2	1646
tcc ata gag cac cag ga	164
caq tca cqt ctc cqq qtc cca aa-NH2	1648
ttt agg acc cgg aga cg-NH2	1649
tcc gta gag gag cac cag ga	1650
ccg tca cgc ctc cgg gtc cca aa-NH2	1001
ttt ggg acc cgg agg cg-NH2	7001
toc gta gag gag cac cag ga	5001
tec ata dad dad cae cag ga	1654
aac gag gcc cgg gtc cca-NH2	1655
tag dae cea ata cac-NH2	1656
ca tra con ato coa -NH2	1657
CITY TO AND	1658
tog dac ccg dag gcg-IVHZ	1850
aat ccg tag agg agc acc agg	000
aac dad dcd cac cdd dtc cca	0001

gac-ttg-gaa-ccc-agt-gcg-cc-NH2 aac gac gcg cac tgg gtt cca agt c aac-gag-gcg-cac-tgg-gtt-cca-agt-c-Pi gac ttg gaa ccc agt gcg-NH2 aac gag gcg cac tgg gtt cca agt cg-NH2	r3A2 arrestor r3A2 probe r3A2 probe r3A2 arrestor r3A2 probe	10
gac-ttg-gaa-ccc-agt-gcg-cc-NH2	r3A2 arrestor	
tta dad ada ttt dag gtd cqc.c - NH2	r3A2 arrestor	
aac-dad-dcd-cac-tdd-dtt-cca-adt-c	r342 probe	
tgg cgt atc tgg git cca agt c aac dad ded cac otc aaa tet eec taa	r3A2 probe	
att ttt cga tac ttt tta tag cac tcc atc	r3A2 invader	
tto ctt gtt tot taa aaa tto cat gto taa	r3A2 invader	

 aac gag gcg cac aac cat caa gtt cta ta-NH2

r3A2 probe r3A2 arrestor r3A2 probe

	r3A2 invader	gga atc gtc act act gac cct ttg ggt ata aac ac	1674
	r3A2 stacker	tot titt tta cag act ctc tca agt cta tta cc	C/9L
	r3A2 arrestor	tat aga act tga tgg ttg tgc gc-NH2	1676
	r3A2 probe	aac gag gcg cac aac cat caa gtt cta-NH2	1677
	r3A2 stacker	tat ctt ttt tac aga ctc tct caa gtc tat tac c	1678
	r3A2 arrestor	tag aac ttg atg gtt gtg cgc-NH2	1679
			1680
	r3A2 probe	cag tca cgt ctc ctc ggc agg gc-INHZ	1681
	r3A2 invader	cac aat atc gta ggt agg agg tgc ctt aa	100
	r3A2 arrestor	gcc ctg ccg agg aga cg-NH2	7001
	r3A2 probe	cag toa ogt oto oto ggo agg g-NH2	1683
	r3A2 stacker	ccc cat oga tct cct cct g	1684
	r3A2 arrestor	ccc tac caa aga gac g-NH2	1685
	r3A2 probe	caa tca cat ctc ctc agc agg-NH2	1686
	r3A2 stacker	and the ate too tee	1687
	r3A2 arrestor	cet acc and and aca-NH2	1688
	13/2 grobe	can the cost off of one an-NH2	1689
	13A2 probe	ממל נמת מלו מני מול מיל מיל מיל מיל מיל מיל מיל מיל מיל מי	1690
	r3AZ stacker	ggir ccc aic gai circ	1691
	r3A2 arrestor	ctg ccg agg aga cg-NHZ	1692
	r3A2 probe	ccg tca cgc ctc ctc ggc agg-NH2	1802
	r3A2 arrestor	cct acc gag gag gcg-NH2	2007
	r3A2 stacker	gcc cca tcg atc tcc tcc	1094
	r3A2 probe	ccg tca cgc ctc ctc ggc agg	1695
	-		
			1696
	hICAM-1 probe	ccg tca cgc ctc ggc ttg tgt gtt c-NH2	1697
	hICAM-1 invader	ccg gga tag gtt cag gga ggc gtc	000
	hICAM-1 stacker	ggt ttc atg ggg gtc cct	1090
	hICAM-1 arrestor	gaa cac aca agc cga ggc g	6601
	hVCAM-1 probe	sea tea cae etc ace ttt att tag-NH2	1700
	hVCAM-1 arrestor	cca aac aaa ddc dad dcg	1701
	hVCAM-1 invader	one caa cat toa cat aaa ete ttt ece tac tct c	1702
	hVCAM-1 stacker	off coa aff coa tot cat c	1703
	hVCAM-1 probe	coa toa cac ctc acc ttt att ta-NH2	1704
	hVCAM-1 arrestor	Caa aca aad dod add cd	1705
,	hVCAM-1 stacker	ggt tcg aat tcc atg tca tc	1706
		SHN-bit age age tot cot act act act act act act act act act ac	1707
/ .	nGAPDH arrestor	cat oft coa gga gcg tgc gcc-NH2	1708

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cac

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cac ttg att ttg	
hGAPDH invader	

Secondary system oligos

aaa agt ggc tcc t-(biotin)c aaa aga ggc tcc gct-(biotin)c aaa atg tac gcc gct-(biotin) c aaa aga tac gcc aca gct-(biotin) c aaa acc aac cgt atg aac t-(biotin) c aaa atc ata cgc cac t-(biotin)c	cgg-agg-aag-cag-ttg-gtg-tgc-ctc-gtt-gcc-tt-NH2 cgg aag aag cag ttg gtg ccc ctc gtt aa-NH2 cgg aag aag cag ttg gtg ccc ctc gtt aa-NH2 cgg aag aag cag ttg gtg cgc ctc gtt aa-NH2 cgg aag aag cag ttg gtg cgc ctc gtt aa cgg aag aag cag ttg gtg cgc ctc gtt aa cgg aag aag cag ttg gtg cgc ctc gtt aa cgg aag aag cag ttg gtg cgc ctc gtt aa cgg aag aag cag ttg gtg cgc ctc gtt aa cgg aag aag cag ttg gag gcg tga cgg t-NH2 cgg aag aag cag ttg gag gcg tga cgg a-NH2 cgg aag aag cag ttg gag gcg tga cgg a-NH2 cgg aag aag cag ttg gag gcg tga cgg t cgg aag aag cag ttg gag gcg tga cgg t cgg aag aag cag ttg gag gcg tga cgg t cgg aag aag cag ttg gag gcg tga cgg t cgg aag aag cag ttg gag gcg tga cgg t cgg aag aag cag ttg gag gcg tga cgg t cgg aag aag cag ttg gag gcg tga cgg t	FL-caa c(cy3)gc ttc ctc FL-caa c(cy3)gc ttc ctc c FL-caa-c(cy3)g-ctt-cct-ccg FL-caa-c(cy3)g-ctt-cct-ccg- <u>uu</u> FL-caa-c(cy3)g-ctt-cct-ccg- <u>uuu-u</u> FL-caa-c(cy3)g-ctt-cct-ccg- <u>uuu-u</u>
Capture Oligo Capture Oligo Capture Oligo Capture Oligo Capture Oligo	SRT SRT SRT SRT SRT SRT SRT SRT SRT SRT	FRET probe FRET probe FRET probe FRET probe FRET probe

1717 1718 1719 1720 1721 1724 1724 1725 1726 1727

1731 1732 1733 1734

Oligo sequence descriptions:
5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications are defined in (), ASR of primary probes are underlined
C18ddC = C18 linker+dideoxy C, ddC = dideoxy C, FI = Fluorescein

	C18ddC = C18 linker+dideoxy C,	ddC = dideoxy C, Fi = Fiddlesceiii	
	Oligo Type	Oligo Sequence	SEQ ID NO
	HUMAN IL-2		
	Human IL-2 Probe	FI- CGAAATTAATACGCCTTCTTGGGCATGTAC -C18ddC	1736
	Human IL-2 Probe	CGAAATTAATAC <u>GCCTTCTTGGGCATGTAC -C18ddC</u>	1/3/
	Human IL-2 Invader	CTGAAGATGTTTCAGTTCTGTG- ddC	1/38
	Human IL-2 Invader	GAAGATGTTTCAGTTCTGTGGC	1739
	Human IL-2 Probe	TCACTTCCTACCTTCTTGGGCATGTAA	1/40
	Human IL-2 Probe	TCACTTCCTACCTTCTTGGGCATGTAAAAC	1741
	Human IL-2 Probe	TCACTTCCTACCTTCTTGGGCATGTAA- C18ddC	1742
	Human IL-2 Invader	GAAGATGTTTCAGTTCTGTGG- ddC	1/43
	Human IL-2 Probe	FI- ACTTCCTACTTAATTCCATTCAAAATC	1744
	Human IL-2 Probe	ACTTCCTACTTAATTCCATTCAAAATC - C18ddC	1745
	Human IL-2 Invader	GAGTTTGGGATTCTTGTAATTAT-ddC	1746
	Human IL-2 Probe	FI- CGTGTTCTGTGGCGTATCTTAATTCCATTCAAAATC	1/4/
	Human IL-2 Probe	CGTGTTCTGTGGCGTATCTTAATTCCATTCAAAALC	1/48
	Human IL-2 Invader	GAGTTTGGGATTCTTGTAATTAT - ddC	1/49
	Human IL-2 Probe	FI- CGTGTTCTGTGGCGTATCTTAATTCCALICAAAALCALCIG	1750
	Human IL-2 Probe	CGTGTTCTGTGGCGTATCTIAALICCALICAAAALCALCIG	1751
	Human IL-2 Probe	FI- CGTGTTCTGTGGCGTATCTTATTCCALLCAAAATCATC	1752
	Human IL-2 Probe	CGTGTTCTGTGGCGTATCTIAAIICCAIICAAAAICAIC	1733
	Human IL-2 Invader	GAGTTTGGGATTCTTGTAATTAT-ddC	40.7- 40.7-
	HUMAN B-ACTIN		7
	Human B-actin Probe	FI-TTCCTAC <u>TCTTGATCTTCATTGTGC</u>	1/55
	Human β-actin Invader	CTCAGGAGGAGCAATGATCTT	1756
	Human β-actin Invader	CTCAGGAGGAGTGAT	1/5/
	Human β-actin Probe	FI-TCACTTCCTACTCTGGGTCATCTTCTCG -C18ddC	1758
	Human β-actin Probe	TCACTTCCTAC <u>TCTGGGTCATCTTCTCG</u> -C18ddC	1759
	Human β-actin Invader	GTGTTGAAGGTCTCAAACATGAT- ddC	09/1
	Human β-actin Invader	GGGTGTTGAAGGTCTCAAACATGAT - ddC	10/1
	Human β-actin Probe	FI- CGTGTTCTGGCGTATCTGGGTCATCTICTGG	1762
	Human β-actin Probe	CGTGTTCTGTGGCGTATCTGGGICAICLICLUG	1,03
	Human β-actin Invader	GGGTGTTGAAGGTCTCAAACATGAT - ddC	1/64
[[GAPDH	EL TTCATAGGTAGTTGAGGTCAATG	1765
2	Human GAPUH Probe	TTO AT A COUNT OF TABLE AND A	1766
	Human GAPDH Probe	GGAATCATATTGGAACATGTAAACCATC	1767
(numan GAPDH invade	OT AT A T A T A T A T A T A T A T A T A	1768
45	Human GAPDH Probe	FI- I I CA I ACGG I I GGC I CC I CC CAAGAI C	3
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Human GAPDH Probe Human GAPDH Invader Human/Mouse/Rat GAPDH Probe	'DH Probe	TTCATACGGTTG <u>GCTCCTGGAAGATG</u> CACTTGATTTTGGAGGGATCTCA TTCATACGGTTGGTAGTTGAGGTCAATG	1769 1770 1771 1772
Mouse GAPDH Probe Mouse GAPDH Probe		FI-TGGCGTAT <u>CATGTAGTIGA</u> TGGCGTAT <u>CATGTAGTTGA</u>	1773 1774 1776
Mouse GAPDH Invader		GGAGTCATACTGGAACATGTAGACC	1776
Mouse GAPDH Probe		IGGCGIAI <u>CATGIAGIIGA</u> AGTCATACTGGAACATGTAGACA	1777
Mouse GAPDH Invader		GGAGTCATACTGGAACATGTAGACA	1778
MOUSE IL-6			770
Mouse IL-6 Probe		FI- TGGCGTATC <u>TCTTTCTCATT</u>	1//9
Mouse IL-6 Probe		TGGCGTATC <u>TCTTTTCTCATT</u>	1781
Mouse IL-6 Invader		ACAATCAGAATTGCCATTGCACAACA	·) ·
MOUSE ONCOSTATINM			1782
Mouse Oncostatin M Probe	ope	FI-GAAGGCAGAG <u>GACCG BAGGC</u>	1783
Mouse Oncostatin M Probe	ego	GAAGGCAGACCGIGAGGC	1784
Mouse Oncostatin M Invader	vader	AAGACAICIGGIGIIGIAGIGA	1785
Mouse Oncostatin M Probe	eqo	FI-TGGCGTATC <u>TCCCCCAGAGAGC</u>	1786
Mouse Oncostatin M Probe	eqo	TGGCGTATC <u>ICCCCAGAGAGC</u>	1787
Mouse Oncostatin M Invader	vader	CACTGAGCCGAIGAGGGGAIGGIAA	1788
Mouse Oncostatin M Probe	eqo.	FI- TGGCGTATCTAGGCTCCAAGAG	1700
Mouse Oncostatin M Probe	eqo.	TGGCGTATC <u>TAGGGCTCCAAGAG</u>	1700
Mouse Oncostatin M Invader	vader	GTGTTCAGGTTTTGGAGGCGGATAA	1/80
Mouse Oncostatin M Probe	eqo.	FI-TGGCGTATC <u>TAGGGCTCCAAG</u>	1791
Mouse Oncostatin M Probe	eqo.	TGGCGTATC <u>TAGGGCTCCAAG</u>	1/92
Mouse Oncostatin M Invader	vader	GTGTTCAGGTTTTGGAGGCGGATAA	1793
FRET Probe		FI-ATTC(CY3)TCTCAGA-3'NH2	1794
FRET Probe		FI-ATTC(CY3)TCTCAGAC-3'NH2	1795
FRET Probe		FI-ATTC(CY3)TCTCAGACT-3'NH2	1796
SRT		CAGTCTGAGATGATACGCCAGG-3'NH2	1/8/1
Mouse Oncostatin M Arrestor	rrestor	CTTGGAGCCCTAGATA-NH2	1798
Mouse Oncostatin M Arrestor	rrestor	CTTGGAGCCCTAGAT-NH2	1/99
Mouse Oncostatin M Arrestor	rrestor	CTTGGAGCCCTAGA-NH2	1800
Mouse Oncostatin M Probe	robe	CTGGCGTATCIAGGGCTCCA	1801
	robe	CCTGGCGTATCIAGGGCTCCA	1802
	vader	GTGTTCAGGTTTTGGAGGCGGATAA	1803
		CAGTCTGAGATGATGATACGCCAGG-3'NH2	1804
		CTTGGAGCCCTAGAT-NH2	1805
Mouse Oncostatin M Probe	robe	FI-CTCTCTCGTCTCIAGGGCTCCA	1806

1807 1808 1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830		1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	5
CTCTCTCGTCTC <u>TAGGGCTCCA</u> GTGTTCAGGTTTTGGAGGCGGATAA CAGTCTGAGATGAATGAGACGAG AGAGI -NH2	CTTGGAGCCCTAGAG-NH2	FI- TGGCGTATCTAGGGCTCCA	TGGCGTATC <u>TAGGGCTCCA</u>	GTGTTCAGGTTTTGGAGGCGGATAA	TGGCGTATCTCCCCAGAGAAA	TGGCGTATC <u>TCCCCAGAGA</u>	CACTGAGCCGATGATGGTAA	TGGCGTATCIAIAGGGCTC	GTGTTCAGGTTTTGGAGGCGGAA	CTCTCTCGTCTTCAGGTTTTG	GGCAGCTCTCAGGTCAGGTGTGA	AGGCAGCTCTCAGGTCAGGTGTGA	CAGTCTGAGATGAATGAGACGAG <u>AGAGT</u> -NH2	FI-ATTC(CY3)TCTCAGAC-3'NH2	CAAAACCTGAAGAGA-3'NH2	CAAAACCTGAAGAGAC-3'NH2	CAAAACCTGAAGAGGCG-3'NH2	FI- CTCTCGTCTTCAGGTTTTG	CTCTCTCGTCTTCAGGTTTTG-NH2	GGCAGCTCTCAGGTCAGGTGTGA	GAGGCGGATATAGGGCT- Biotin TEG		CTCTCTCGTCTT <u>CTAAGGACTTA</u>	CTCTCTCGTCTT <u>CTAAGGACTTAC</u>	GAAACAGGAGTGCAAGGACCAGACA	TCACGTCTCTTCAGGTTTTG	GTCACGTCTCTCAGGTTTTG	AGTCACGTCTCTCAGGTTTTG	CAGTCACGTCT <u>TCAGGTTTTG</u>	AGGCAGCTCTCAGGTCAGGTGTGA	FI- CAAC(CY3)GCTTCCTCCG	CGGAGGAAGCAGTTGGAGACGTGACTG <u>TGG</u> -NH2	CGGAAGAAGCAGTTGGAGACGTGACTG <u>TGG</u> -NH2	CGGACGAAGCAGIIGGAAACGIGACIGIAG-INTZ
Mouse Oncostatin M Probe Mouse Oncostatin M Invader SRT	Mouse Oncostatin M Arrestor	Mouse Oncostatin M Probe	Mouse Oncostatin M Probe	Mouse Oncostatin M Invader	Mouse Oncostatin M Probe	Mouse Oncostatin M Probe	Mouse Oncostatin M Invader	Mouse Oncostatin M Probe	Mouse Oncostatin M Invader	Mouse Oncostatin M Probe	Mouse Oncostatin M Invader	Mouse Oncostatin M Invader	SRT	FRET Probe	Mouse Oncstatin M Arrestor	Mouse Oncostatin M Arrestor	Mouse Oncostatin M Arrestor	Mouse Oncostatin M Probe	Mouse Oncostatin M Probe	Mouse Oncostatin M Invader	Mouse Oncostatin M Stacker	HUMAN ONCOSTATIN M	Human Oncostatin M Probe	Human Oncostatin M Probe	Human Oncostatin M Invader	Human Oncostatin M Probe	Human Oncostatin M Invader	Fret Probe 1	SRT	SRT with mismatch	SRT with mismatch			

COMBAGAS GREAT

bold indicates 2' o-methyl bases

Oligo Type	Oligo Sequence	Oligo #	SEQ ID NO
SECONDARY SYSTEM: SET 1 FRET probe 1 secondary target	5'-F-CAAC(CY3)GCTTCCTCCG-3' 5'- CGGAAGAAGCAGTTGGTGCGCCTC <u>GTTAA</u> -NH2	DB04001F6 649-10-01	1843 1844
SET 2 FRET probe 1 secondary target	5'-F-CAAC(CY3)GCTTCCTCCG-3' 5'-CGGAAGAAGCAGTTGGAGGCGTGACGGT-NH2-3'	DB04001F6 641-60-03	1845
h2C19 designs 2 probe stacker invader arrestor SET 1	5'-AACGAGGCGCACGATGTCCATCGA-NH2-3' 5'-TTCTTGGTGTTCTTTTACTTTCTC-3' 5'-GCAATCAATAAAGTCCCGAGGGTTGTTC 5'-TCGATGGACATCGTGCGC-3'	971-26-09 971-26-12 971-26-11 971-26-10	1847 1848 1850
h 2D6 p450 designs probe stacker invader arrestor SET 2	5'-CCGTCACGCCTCTCACCCATCT-NH2-3' 5'-CTGGTCGCCGCACCT-3' 5'-TGTAGGGCATGTGAGCCTGGA-3' 5'-AGATGGGAGAGGCG-3'	971-11-01 971-11-04 971-11-03 971-11-02	1851 1852 1853
probe stacker invader arrestor SET 2	5'-CCGTCACGCCTCGAAGCCCTGT-NH2-3' 5'-ACTTCGATGTCACGGGATGTCATATGG-3' 5'-GAGTGTCGTTCCCTTAGGGATGCGC-3' 5'-ACAGGGCTTCGAGGCG-3'	971-11-05 971-11-08 971-11-06	1855 1856 1857 1858
probe stacker invader arrestor	5'-CCGTCACGCCTCCCTGCTGAGAAG-NH2-3' 5'-GCAGGAAGGCCTCCG-3' 5'-CCGAGGCATGCACGGCGGA-3' 5'-CTTTCTCAGCAGGGAGGCG-3'	971-11-09 971-11-12 971-11-11 971-11-10	1859 1860 1861 1862

probe stacker invader arrestor SET 2

h 2D6 shroter designs probe probe invader stacker arrestor	5'-CCGTCACGCCTCCCTGCTGAGAAA-HEX-3' 5'-CCGTCACGCCTCCCTGCTGAGAAA-3' 5'-CCGTCACGCCTCCCTGCTGAGAAA-NH2-3' 5'-CCGAGGCATGCACGCGGA-3' 5'-GCAGGAAGGCCTCC-3' 5'-TTCTCAGCAGGAGGCG-3'	1051-12-06 1051-12-05 971-38-01 971-11-11 971-38-02	1863 1864 1865 1866 1867
probe	5'-CCGTCACGCCTCCCTGCTGAGA-NH2-3'	971-38-07	1869
invader stacker arrestor SET 2	5'-AAGGCAGGAAGGCCTCC-3' 5'-TCTCAGCAGGGAGGCG-3'		1870
probe	5'-CCGTCACGCCTCCCTGCTGAGAA-NH2-3'	971-38-04	1872
invader stacker arrestor SET 2	5'-AGGCAGGAAGGCCTGG-3' 5'-TTCTCAGCAGGGAGGCG-3'		1873 1874
probe	5'-CCGTCACGCCTCCCTGCTGAGAAAG-NH2-3'	971-11-09 971-11-11	1875
invader stacker arrestor SET 2	5'-GCAGGAAGGCCTCCG-3' 5'-CTTTCTCAGCAGGGGGG-3'	971-11-12 971-11-10	1876 1877
h 2B6 p450 alt. Splice designs probe invader stacker arrestor SET 1	5'-AACGAGGCGCACCATATCCC-NH2-3' 5'-CCAGCGGTTTCCATTGGCAAGATCAA-3' 5'-CGGAAGAATGGGTCGACCATG-3' 5'-GGGATATGGTGCGC-3'	1051-48-01 971-01-03 971-01-04 1051-48-02	1878 1879 1880 1881
probe probe probe invader	5'-CCGTCACGCCTCCACATATCCC-HEX-3' 5'-CCGTCACGCCTCCACCATATCCC-3' 5'-CCGTCACGCCTCCACATATCCC-NH2-3'	1051-12-02 1051-12-01 971-01-03	1882 1883 1884
stacker arrestor	5'-GGGATATGGTGGAGGCG-3'	971-01-04 971-01-02	1885

	1886 1887 1888 1889	1890	1891	1892 1893 1894 1895	1896	1897	1898 1899 1900 1901	1902	1903
	1051-48-03 971-01-10 971-01-11 1051-48-04	971-01-08 971-01-10 971-01-11	971-01-09	1051-48-05 1051-48-10 1051-48-09	1051-48-07 1051-48-10 1051-48-09	1051-48-08	1051-48-11 1051-48-16 1051-48-15 1051-48-12	1051-48-13 1051-48-16 1051-48-15	1051-48-14
	5'-AACGAGGCGCACCAGAGCTGATGAG-NH2-3' 5'-GAGAAGAGCTCAAACAGCTGGCCGAATAA-3' 5'-TGAAAAAGTCTGGTAGAACAAGTTCAGC-3' 5'-CTCATCAGCTCTGGTGCGC-3'	5'-CCGTCACGCCTCCAGAGCTGATGAG-NH2-3'	5'-CTCATCAGCTCTGGAGGCG-3'	5'-AACGAGGCGCACCCTTGGATTTC-NH2-3' 5'-CTGTTCAATCTCCCTGTAGACTCTCTA-3' 5'-CGAAGCTCCTCTATCAG-3' 5'-GAAATCCAAGGGTGCGC-3'	5'-CCGTCACGCCTCCCTTGGATTTC-NH2-3'	5'-GAAATCCAAGGGAGGCG-3'	5'-AACGAGGCGCACTGAGGGCC-NH2-3' 5'-GGAAGAGGAAGGTGGGGTCCAA-3' 5'-CCTTGGATTTCCGAAG-3' 5'-GGCCCTCAGTGCGC-3'	5'-CCGTCACGCCTCTGAGGGCC-NH2-3'	5'-GGCCCTCAGAGGCG-3'
SET 2	probe invader stacker arrestor SET 1	probe	SET 2	h 2B6 p450 alt.splice designs2 p l s a SET 1	۵ — ۱	a . SET 2	p I s a SET 1		SET 2 h2B6 p450 alt. Splice designs4

probe invader stacker arrestor SET 1	5'-AACGAGGCGCACAATACAGAGCTG-NH2-3' 5'-GAGAAGAGCTCAAACAGCTGGCCGC-3' 5'-ATGAGTGAAAAGTCTGGTAGAAC-3' 5'-CAGCTCTGTATTGTGCGC-3'	1051-48-17 1051-48-22 1051-48-21 1051-48-18	1904 1905 1906 1907
probe invader	5'-CCGTCACGCCTCAATACAGAGCTG-NH2-3'	1051-48-19 1051-48-22 1051-48-21	1908
stacker arrrestor SET 2	5'-CAGCTCTGTATTGAGGCG-3'		1909
probe invader stacker arrestor SET 1	5'-AACGAGGCGCACGGTTGAGGTTCTG-NH2-3' 5'-CAGCAAAGAAGAGCGAGAGCGTGTTGAC-3' 5'-GTGGCTGAATTCACTGTG-3' 5'-CAGAACCTCAACCGTGCGC-3'	1051-48-23 1051-48-28 1051-48-27 1051-48-24	1910 1911 1912 1913
probe invader	5'-CCGTCACGCCTCGGTTGAGGTTCTG-NH2-3'	1051-48-25 1051-48-28	1914
stacker arrestor SET 2	5'-CAGAACCTCAACCGAGGCG-3'		1915
h2B6 p450 designs probe invader stacker stacker arrestor SET 2	5'-CCGTCACGCCTCCACCATATCCCCG-NH2-3' 5'-CCGTCACGCCTCCACCATATCCC-NH2-3' 5'-CGGAAGAATGGGTCGAC-3' 5'-CGGAAGAATGGGTCGACCATG-3' 5'-CGGAAGAATGGGTCGACCATG-3'	971-01-06 971-01-03 971-01-05 971-01-04	1916 1917 1918 1919 1920
probe invader arrestor SET 2	5'-CCAGCGGTTTCCATTGGCAAAGATCAA-3' 5'-CGGGGATATGGTGGAGGCG-3'	971-01-01 971-01-03 971-01-07	1921
probe invader stacker	5'-CCGTCACGCCTCCAGAGCTGATGAG-NH2-3' 5'-GAGAAGAGCTCAAACAGCTGGCCGAATAA-3' 5'-TGAAAAAGTCTGGTAGAACAAGTTCAGC-3'	971-01-08 971-01-10 971-01-11	1923 1924 1925

COMPAGE CITETOR

	arrestor SET 2	5'-CTCATCAGCTCTGGAGGCG-3'	971-01-09	1926
	h2b6p450 designs 2 probe invader stacker arrestor SET 2	5'-CCGTCACGCCTCAGATGACTGCC-NH2-3' 5'-GGAGAAGGTCGGAAAATCTCTGAATCTCATC-3' 5'-TCTGTGTATGGCATTTTGGCTCGG-3' 5'-GGCAGTCATCTGAGGCG-3'	971-01-12 971-01-13 971-01-14 971-01-15	1927 1928 1929 1930
	h 2C19 designs 1 probe invader stacker arrestor SET 2	5'-CCGTCACGCCTCCATCCTTAATATCTAT-NH2-3' 5'-GAGAGATTGGTTAAGGATTTGCTGAA-3' 5'-CTGTAGGATATTTCCAATCACTGGG-3' 5'-ATAGATATTAAGGATGGAGGCG-3'	971-26-01 971-26-03 971-26-04 971-26-02	1931 1932 1933 1934
	probe invader stacker arrestor SET 1	5'-AACGAGGCGCACCGTTCCAGGC-NH2-3' 5'-CATATCCATGCAGCACCATGA-3' 5'-CAAAATACAGAGTGAACACAGGGCC-3' 5'-GCCTGGAACGGCC-3'	971-26-05 971-26-07 971-26-08 971-26-06	1935 1936 1937 1938
	h2C19 shorter site 2 designs probe invader stacker arrestor SET 1	5'-AACGAGGGGACCGTTCCAGG-NH2-3' 5'-CATATCCATGCAGCACCATGA-3' 5'-CCAAAATACAGAGTGAACACAGGGCC-3' 5'-CCTGGAACGGTGCGC-3'	971-68-01 971-26-07 971-68-03 971-68-02	1939 1940 1941 1942
	probe probe probe	5'-AACGAGGCGCACCGTTCCAGGC-NH2-3' 5'-AACGAGGCGCACCGTTCCAGGC-3' 5'-AACGAGGCGCACCGTTCCAGGC-HEX-3'	971-26-05 1051-12-03 1051-12-04 971-26-07	1943 1944 1945
/19/	invader stacker arrestor SET 1	5'-CAAAATACAGAGTGAACACAGGGCC-3' 5'-GCCTGGAACGGTGCGC-3'	971-68-04 971-26-05	1946
145	rat 1A1, rat 1A2 probe	Rat 1A1 site 1 bs. 639-700 5'-CCGTCACGCCTCAGATTGACTATGCTG-NH2-3'	500-58-01	1948

	invader stacker arrestor SET 2	5'-CAGTAACCTCCCCAAACTCATTGCTTC-3' 5'-AGCAGCTCTTGGTCATCGT-3' 5'-CAGCATAGTCAATCTGAGGCG-3'	500-58-03 500-58-04 500-58-02	1949 1950 1951
	rat 1A2 probe invader stacker arrestor SET 1	Rat 1A2 site 1 bs. 674-725 5'-AACGAGGCGCACTGACATTCTCCAC-NH2-3' 5'-GTCCACAGCATTCCCTGAGGA-3' 5'-AAAGTCCTTGCTGCTCTTC-3' 5'-GTGGAGATGTCAGTGCGC-3'	500-58-05 500-58-07 500-58-08 500-53-06	1952 1953 1954 1955
	rat 2B1-2B2 patent probe invader stacker arrestor SET 1	5'-AACGAGGCGCACTGGCTTGACACA-NH2-3' 5'-GTCAATGTCCTTGGGAGCCAAAA-3' 5'-GAGAAGTTCTGGAGGATGGTGG-3' 5'-TGTGTCAAGCCAGTGCGC-3'	500-49-05 500-49-03 r2B1, 2B2 500-49-07 500-49-06	1956 1957 1958 1959
	probe invader stacker arrestor SET 1	5'-AACGAGGCGCACTGGCTTGACACAG-NH2-3' 5'-AGAAGTTCTGGAGGATGGTGG-3' 5'-CTGTGTCAAGCCAGTGCGC-3'	500-49-01 500-49-03 r2B1, 2B2 500-49-04 500-49-02	1960 1961 1962
	rat 2B1-2B2 site 4 probe invader stacker arrestor SET 2	PROBE SET 2 (r2B1 bs 1299-1353, r2B2 bs. 474-528) 5'-AACGAGGCGCACGAGGAACAATTCATTT-NH2-3' 5'-GTTCTGGAGGATGGTGGTGAAGAAC-3' 5'-CGGCCAATGCCTTCG-3' 5'-AAATGAATTGTTCCTCGTGCGC-3'	500-49-12 500-49-10 500-49-14 500-49-13	1963 1964 1965 1966
1201	probe invader stacker arrestor SET 1	5'-AACGAGGCGCACGAGGAACAATTCATTTC-NH2-3' 5'-GGCCAATGCCTTCG-3' 5'-GAAATGAATTGTTCCTCGTGCGC-3'	500-49-08 500-49-10 500-49-11 500-49-09	1967 1968 1969
145	rat 2B1-2B2 ,5 patent probe	5'-AACGAGGCGCACAGCTGAGAAGCAG-NH2-3'	500-49-15	1970

1971 1972 1973 1974 1975	1976 1977 1978 1979	1980	1982 1983 1984 1985	1986	1988 1989 1990
r2B1, 500-49-17 r2B2, 500-49-18 r2B1 500-49-20 r2B2 500-49-21 500-49-16	500-40-04 500-40-02 500-40-05 500-40-06	500-40-01 500-40-02 500-40-05 500-40-03	500-40-10 500-40-08 500-40-11 500-40-12	500-40-07 500-40-08 500-40-11 500-40-09	1073-19-06 500-40-14 500-40-17 500-40-15
 5'-GCCTCAGCCGGATCACCGC-3' 5'-GCCTCAGCCCGATCACCGC-3' 5'-ATCTGGTACGTTGGAGGTATT-3' 5'-ATCTGGTATGTTGGAGGTATT-3' 5'-CTGCTTCTCAGCTCTGCC-3' all 3 invader/probe sets are designed to detect both 2B1 and 2B2 	Rat 2E1 PROBE SET (570C) 5-CCGTCACGCCTCGTCGAACGTTTGTT-NH2 5-CCTCAGACACTTCTTGTCATTGTAC-3' 5-GAAGAGGATATCCGCAATGACATTGC-3' 5'-AACAAACGTTTCGACGAGGCG-3'	5'-CCGTCACGCCTCGTCGAACGTTTGTTGAAG-NH2-3' 5'-CTTCAACAAACGTTTCGACGAGGCG-3'	Rat 2E1 PROBE SET (822G) (designed over splice junction #5) 5'-CCGTCACGCCTCCTCATCTATG-NH2-3' 5'-GTTCTTGGCTGTTTTTCCTTA-3' 5'-AGGAGAGAGTCAGTCATC-3' 5'-CATAGAGATGGAGGGGGG-3'	5'-CCGTCACGCCTCCTCCATCTCTATGAG-NH2-3' 5'-CTCATAGAGATGGAGGGGGG-3'	Designed over splice junction #6 5'-CGTCACGCCTCCTTCAATTTCTG-HEX-3' 5'-CCCTGTCAATTTCTTCATGAGGTTTA-3' 5'-GGTATTTCATGAGGATCAGGAGC-3' 5'-CCAGAAATTGAAGAGGAGCG-3'
invader invader stacker stacker arrestor NOTE: all 3 invader/probe sets all	rat 2E1 p450 (afo61442) 500-73 p l s a SET 2	p I s a SET 2	rat 2E1 p450 (afo61442) 500-73 p l s a SET 2	p I s a SET 2	Rat 2E1 PROBE SET (969G) probe invader stacker arrestor SET 2

1992 1993 1994	1995	1996 1997 1998 1999	2000 2001 2002 2003 2004 2005 2006	2007	2009 2010 2011 2012 2013 2014 2015
1073-19-05 500-40-16 500-40-13	500-40-1 <i>7</i> 500-40-18	500-73-01 500-40-14 500-73-03 500-73-02	500-43-15 r3A1, 3A18 500-43-23 r3A2 500-43-24 short r3A1, 3A2, 3A18 500-43-19 short r3A9 500-43-20 500-43-16	500-43-13 r3A1, 3A18 500-43-23 r3A2 500-43-24 500-43-14	500-43-29 r3A1, 3A2 500-43-35 r3A9 500-43-36 r3A18 500-43-31 r3A2 500-43-32 r3A9 500-43-33
5'-CCGTCACGCCTCCTCTTCAATTTCTG-3' 5'-CCGTCACGCCTCCTTCAATTTCTG-NH2-3' 5'-CCGTCACGCCTCCTTCAATTTCTGG-NH2	5'-CAGAAATTGAAGAGGAGGCG-3'	Designed over splice junction #6 5'-CCGTCACGCCTCCTTCAATTTCT-NH2-3' 5'-CCCTGTCAATTTCTTCATGAAGTTTA-3' 5'-GGTATTTCATGAGGATCAGGAG-3' 5'-AGAAATTGAAGAGGAGCG-3'	5'-CCGTCACGCCTCGTTCCTGGGT-NH2-3' 5'-GAGCAAACCTCATGCCAATGCAC-3' 5'-GAGCAAACCTCATGTCAATGCAC-3' 5'-GATTTCCAAAGGCAG-3' 5'-CCATTTCCAAGGGCAG-3' 5'-ACCCAGGAACGGCAG-3'	5'-CCGTCACGCCTCGTTCCTGGGTC-NH2-3' 5'-GACCCAGGAACGAGGCG-3'	5'-CCGTCACGCCTCTGAGAGCAAACCT-NH2-3' 5'-AGAGCGAGTTTCATATTCAA-3' 5'-AGAGCAACTTTCATGTTCAA-3' 5'-ACAGCAAGTTTCATGCTGAA-3' 5'-CATGCCAATGCAGTTCCTG-3' 5'-CATGCCAATGCAGTTCCTG-3' 5'-CATGCCAATACAGTTCCTG-3'
probe probe probe invader	stacker arrestor SET 2	Rat 2E1 PROBE SET (969G) probe invader stacker arrestor SET 2	rat 3A's design 2 probe invader invader stacker stacker arrestor	probe invader invader arrestor SET 2	rat 3A's desing 3 probe invader invader stacker stacker stacker

	arrestor SET 2	5'-AGGTTTGCTCTCCGAGGCG-3'	500-43-30	2016
		5'-CCGTCACGCCTCTGAGAGCAAACCTCA-NH2-3'	500-43-27 r3A1, 3A2 500-43-35 r3A9 500-43-36	2017
	invader invader arrestor SET 2	5'-TGAGGTTTGCTCTCAGAGGCG-3'	r3A18 500-43-37 500-43-28	2018
	rat 3A's designs probe invader invader s s	5'-CCGTCACGCCTCGGAACATCTCCT-NH2-3' 5'-TGTCTCCATACTGTTCAATGATGGC-3' 5'-TATCTGTATACTGGTTAATGATGGC-3' 5'-TATCTCCATACTGTCTCATGAGGGC-3' 5'-TGAGTCTTCCACTGGTG-3' 5'-TGAGCTTCCACTGGTG-3' 5'-TGAGTTTGCCACTGGTG-3'	500-43-03 r3A1, 3A2 500-43-09 r3A9 500-43-10 r3A18 500-43-11 r3A1, 3A2 500-43-05 r3A9 500-43-06 r3A18 500-43-07	2019 2020 2021 2022 2023 2024 2025
	SEL 2 probe invader	5'-CCGTCACGCCTCGGAACATCTCCTTGA-NH2-3'	500-43-01 r3A1, 3A2 500-43-09	2026
	invader invader arrestor SET 2	5'-TCAAGGAGATGTTCCGAGGCG-3'	5383 500-43-10 r3A18 500-43-11 500-43-02	2027
/)	rat 3A's design 2b probe invader invader stacker stacker arrestor SET 2	5'-CCGTCACGCCTCGTTCCTGGG-NH2-3' 5'-GAGCAAACCTCATGCCAATGCAC-3' 5'-GAGCAAACCTCATGTCAATGCAC-3' 5'-GAGCAAACCTCATGCCAATACAC-3' 5'-TCCATTCCAAAGGGCAG-3' 5'-TCCATTCCAAAGGGCAG-3' 5'-CCCAGGAACGGCAG-3'	991-39-01 r3A1, 3A18 500-43-23 r3A2 500-43-24 r3A9 500-43-25 r3A1, 3A2, 3A18 991-39-03 r3A9 991-39-04 991-39-02	2028 2029 2030 2031 2032 2033 2034
3/11/1	rat or human 1A1 shorter site 2 probe probe	5'-CCGTCACGCCTCCTGTCTGAT-HEX-3' 5'-CCGTCACGCCTCCTGTGTGAT-3'	1073-19-02 1073-19-01	2035 2036

probe invader invader stacker arrestor SET 2	5'-CCGTCACGCCTCCTGTGTGAT-NH2-3' 5'-TCCTGACAATGCTCAATGAGGA-3' 5'-TCCTGACAGTGCTCAATCAGGA-3' 5'-GTCCCGGATGTGGCCC-3' 5'-ACATCACAGAGGGGG-3'	991-12-04 r 1A1 500-53-11 h 1A1 500-53-12 rat/human 1A1 991-12-06 500-53-10	2037 2038 2039 2040 2041
probe invader	5'-CCGTCACGCCTCCTGTGTG-NH2-3'	991-12-01 r 1A1 500-53-11 b 1A1 500-53-12	2042
invader stacker arrestor SET 2	5'-TCCCGGATGTGGCCCT-3' 5'-CATCACAGACAGGAGGCG-3'	rat/human 1A1 991-12-03 991-12-02	2043 2044
probe invader	5'-CCGTCACGCCTCCTGTGTGT-NH2-3'	500-53-09 r 1A1 500-53-11	2045
invader stacker arrestor SET 2	5'-GTCCCGGATGTGGCCC-3' 5'-ATCACAGACAGGGGGG-3'	n 1A1 500-53-12 rat/human 1A1 991-12-06 991-12-05	2046 2047
rat or human 1A1 site 1 probe invader stacker stacker arrestor	5'-CCGTCACGCCTCTGGCCCTTC-NH2-3' 5'-CTGTCTGTGATGTCCCGGATGA-3' 5'-TCAAATGTCCTGTAGTGCTC-3' 5'-TCAAAGGTTTTGTAGTGCTC-3' 5'-GAAGGCCAGAGGCG-3'	500-53-04 500-53-03 rat 1A1 500-53-06 human 1A1 500-53-07 500-53-05	2048 2049 2050 2051 2052
probe invader arrestor SET 2	5'-CCGTCACGCCTCTGGCCCTTCTC-NH2-3' 5'-GAGAAGGGCCAGAGGCG-3'	500-53-01 500-53-03 500-53-02	2053
Rat/Human 1A1 site 2 probe invader invader stacker arrestor	5'-CCGTCACGCCTCCTGTGTGATGT-NH2-3' 5'-TCCTGACAATGCTCAATGAGGA-3' 5'-TCCTGACAGTGCTCAATCAGGA-3' 5'-CCCGGATGTGGCCCT-3' 5'-CCCGGATGTGGCCCT-3'	500-53-09 r 1A1 500-53-11 h 1A1 500-53-12 rathuman 1A1 500-53-14 500-53-10	2055 2056 2057 2058 2058

SET 2

2060 2061 2062 2063 2064 2065	2066 2067 2068 2069
1073-19-04 1073-19-03 500-53-15 rat 1A2 500-53-17 human 1A2 500-53-18 500-53-16	971-48-01 971-26-11 971-48-03 971-48-02
5'-AACGAGGCGCACGGACTGTTTTCTGC-HEX-3' 5'-AACGAGGCGCACGGACTGTTTTCTGC-3' 5'-AACGAGGCGCACGGACTGTTTTCTGC-NH2-3' 5'-CTTGTTGAAGTCTTGATAGTGTTCCTC-3' 5'-CTTGTCAAAGTCCTGATAGTGCTCCTC-3' 5'-GCAGAAACAGTCCGTGCGC-3'	5'-AACGAGGCGCACGATGTCCATCG-NH2-3' 5'-GCAATCAATAAAGTCCCGAGGGTTGTTC-3' 5'-ATTCTTGGTGTTCTTTTACTTTCTC-3' 5'-CGATGGACATCGTGCGC-3'
rat or human 1A2 sites probe probe probe probe invader arrestor SET 1	shorter h2C19 design site 3 probe invader stacker arrestor SET 1

Human IL-10	L-10				CEO ID NO
Oligo Type	Seguence	Oligo Number	Secondary Cassette	Comments	2070
probe	aacgaggcgcaccaaactcactcatggct-NH2	511-31-01	FV-1 & FV-2	3. amine	2071
arrestor	agccatgagttggttggtgcg	511-31-02	í	All Z-Ome + 3 armine arrestor to 311-31-51	2072
probe	aacgaggcgcaccaaactcactcatggc-NH2	511-30-01	FV-1 & FV-2	3 dillille All 2, Omo ± 2, amino arrestor for 511.30-01	2073
arrestor	gccatgagttggtgcg	511-30-02		All 2-Office + 3 drilling director of 511 co 51	2074
arrestor	gccatgagtgagtttgg	380-89-02			2075
arrestor	gccatgagtttggtg	380-89-04		All 2-Ollie daille as 300-02-04	2076
arrestor	gccatgagtttggtgcg	380-89-08		All 2-Office define as 300-02-03	2077
arrestor	gccatgagtttggtgcgcc	380-89-08	i i	All Z-Office dailie as 300-02-00	2078
probe	aacgaggcgcaccaaactcactcatgg-NH2	511-67-01	FV-1 & FV-2	3. amine	2079
stacker	ctttqtacatqccttctcttggagc	781-79-01		Stacker for 51 1-67-01 All & Onlie	2080
arrestor	ccatoaotttootoco	781-79-02		all 2'Ome arrestor for 51'1-0'-0'	2081
probe	pancanconnonanactoacteate-NH2	781-80-01	FV-1 & FV-2	3' amine	2087
pione	and a few second and a	781-80-02		stacker for 781-80-01 All 2'Ome	7007
Stacker	gottigtacatgoottoottoo	781-80-03		ali 2'Ome arrestor for 781-80-01	2083
arrestor	catgagtgagtttggtgcg	701 04 04	FV-1 & FV-2	3' amine	2084
probe	aacgaggcgcaccaaactcactcat-IVHZ	701-01-01	3	stacker for 781-81-01 All 2'Ome	2085
stacker	ggctttgtacatgccttctcttgga	70-1-01-07		stacker for 781-81-01 All 2'Ome to replace 781-81-02	2086
stacker	ggctttgtagatgcctttctcttgga	938-74-01		312000 101 101 01 01 101 01 101 101 101 1	2087
arrestor	atgagttggtgcg	781-81-03			2088
probe	cogtoacgcctccaaactcactcat-NH2	938-46-02	MO4-1/MO4-2/MO4-3	same as 936-40-01 W/ 3 alfillie	2089
arrestor	atgagtttggaggc	938-46-03			2090
invader	taggettetatgtagttgatgaagatgta	380-59-02		00 03 000 000 000	2091
invader	gtcatgtaggcttctatgtagttgatgaagatgta	511-32-01		longer invader 300-39-02	
II conce	7				
Monse	†			trace of the state	
Oligo Type	Sequence	Oligo Number	Secondary Cassette	COMMITTERITY	2092
probe	aacgaggcgcactctcctgtgacctcg	511-14-01	FV-1 & FV-2	11 21 0 - 1 2' amino arractor for 511-11-11	2093
arrestor	caaaatcacaggagagtgcg	511-14-02		All Z-Ome + 3 arrille arrestor to or - 14-01	2007
probe	aacqaqqqqqqqttcctqtgacct-NH2	511-12-01	FV-1 & FV-2	458-34-01 With 3' amine	2004
arrestor	anatracadagaataca	511-02-01		All 2'-0me + 3' amine arrestor for 450-54-01	3005
aroho	control of the contro	511-16-01	MO2	3' amine	2007
proper	cagicaconopaconopacono en	511-16-02		All 2'-Ome + 3' amine arrestor for 511-16-01	7007
arrestor	ayyıcacayyayayaya	511-50-01		All 2'-Ome + 3' amine arrestor for 511-16-01	2088
arrestor	aggicacaggagagac	458-35-01	MISC-1		2099
prope	aaccagicgiacuriciccigigacci	511-03-01		All 2'-Ome + 3' amine arrestor for 458-35-01	2100
arrestor	aggicacaggagacgiac	458-35-02	MISC-1		2101
prope	CCaylicylacylicicsignacol	511-04-01		All 2'-Ome + 3' amine arrestor for 458-36-01	2102
arrestor	aggicacaggagagagag	458-36-01	MISC-2		2103
prope	aaccacccycaciciccygigacci	511-13-01	FV-1 & FV-2		2104
prope	aacyaggcycactcccaggacc	511-13-02			2105
arrestor	gg:cacaggagagagagag	781-71-01	FV-1 & FV-2	3' amine	2106
plone	ortoottoaaaatoocaataatototo	781-71-02		All 2'-Ome for 781-71-01	2108
stacher	transactions	781-71-03		All 2'-Ome arrestor for 781-71-01	2700
Invoder	atoratoratoratoratorata	380-32-01			2440
Invader	atocatotocataaatagogtoocta	380-32-02		Same as 380-32-01 but underlined base is mismatch to sequence	0 7
10000				- ;	2111
probe	aacgaggcgcaccccttctcctgtgac-NH2	511-44-01	FV-1 & FV-2	3' amine All 2'-Ome + 3' amine arrestor for 511-44-01	2112
arrestor	gtcacaggagaaggggtgcg	511-44-02	0 7 1		2113
probe	aacgaggcgcaccccttctcctgt-NH2	511-68-01	FV-1 & FV-2	3 animie All 2'-Ome + 3' amine arrestor for 511-68-01	2114
arrestor invader	acaggagaaggggtgcg ggcacatccatctccgtgcatggcgta	511-08-02 511-45-01			2115
		E44 46 04	MO4-1/MO4-2/MO4-3	3' amine	2116
probe	ccgtcacgcctcctctgtgacctcgt-NH2	511-46-01			

2117 2118 2120 2121 2122 2123 2124 2126	2127 2128 2129	2130 2131 2132 2133 2134	2135 2136 2137	2138 2139 2140	2141 2142 2143 2144 2145 2146	2148 2149 2150 2151 2152	2153
All 2-Ome + 3' amine arrestor for 511-46-01 3' amine All 2-Ome + 3' amine arrestor for 511-69-01 3' amine All 2'Ome stacker for 781-68-01 All 2'Ome arrestor for 781-68-01 3' amine All 2'Ome arrestor for 781-69-01 All 2'Ome arrestor for 781-69-01	3' amine All 2'-Ome + 3' amine arrestor for 511-17-01	3' amine All 2' Ome arrestor for 781-83-01 3' amine All 2' Ome arrestor for 781-82-01	3' amine All 2' Ome arrestor for 781-84-01	Comments 3' amine All 2'-Ome + 3' amine arrestor for 511-19-01	Comments 3' amine All 2'-Ome + 3' amine arrestor for 511-24-01 3' amine All 2'-Ome + 3' amine arrestor for 511-23-01 3' amine All 2'-Ome + 3' amine arrestor for 511-20-01	Comments 3' amine (based on 685-27-01-1 base shorter) All 2-Ome + 3' amine arrestor for 511-77-01 3' amine (based on 685-27-01-2 bases shorter) All 2-Ome + 3' amine arrestor for 511-78-01	Comments 3' amine (based on 685-21-01)
MO4-1/MO4-2/MO4-3 MO4-1/MO4-2/MO4-3 MO4-1/MO4-2/MO4-3	MO2	TT-1/TT-2 MO4-1/MO4-2/MO4-3	MO4-1/MO4-2/MO4-3	Secondary Cassette MO2	Secondary Cassette MO2 MO2 MO2	Secondary Cassette TT-1/TT-2 TT-1/TT-2	Secondary Cassette MO4-1/MO4-2/MO4-3
511-46-02 511-69-01 511-69-02 781-68-01 781-68-03 781-69-01 781-69-02 781-69-03	511-17-01 511-17-02 511-18-01	781-83-01 781-83-02 781-82-01 781-82-02 781-82-03	781-84-01 781-84-02 781-84-03	Oligo Number 511-19-01 511-19-02 511-20-01	Oligo Number 511-24-01 511-24-02 511-23-01 511-23-02 511-21-01 511-22-01	Oligo Number 511-77-01 511-77-02 511-78-01 511-78-02 685-28-01	Oligo Number 511-79-01
acgaegstcacaggaegec cogtcacgcctcctctggacctc-NH2 gaegstcacaggaegaegc ccgtcacgcctcctctgtgacc-NH2 tcggttcaaaatgcogatgatctctca ggtcacaggaegaegc ccgtcacgcctcctgtgac-NH2 ccgtcacagaegaegc-NH2 acggttcaaaatgcogatgatctctca gtcacaggaegaegcogaegaecchta	cagtcacgtctctccttctcct-NH2 aggagaagggagagacg gcacatccatctccytgcatggcga	cogocogagateactoctytgaco-NH2 ggtcacaggagtgatc cogtcacgcctctcctgtgaco-NH2 cogtgcatggcgtcccttca ggtcacaggagagggc	cogtcacgoctcoctgtgaco-NH2 cgtgcatggcgtcocttcta ggtcacagggaggcg	L-2 Sequence cagtcacgtctcttagtttaccacagttactct-NH2 agagtaactgttgtaaaactaaagagacg gcactcaaatgtgttgtcagagccca	FN-y Sequence cagicacgtctccttttgccagttcc-NH2 ggaactggcaaaaggagagacg cagtcacgtctccttttgccagttc-NH2 gaactggcaaaaggagagacg cagtcacgtctccttttgccagttc-NH2 gaactggcaaaaggagagacg cagtcacgtctccttttgccagtt-NH2 aactggcaaaaggagagacg	TNF-α Sequence cogcoggagatcactctgactgcctg-NH2 caggoagtcagatgatctcgg ccgcoggagatcactctgactgcct-NH2 aggocagtcagagtgatctcgg aggoagtcagagtgatctcgg cct gtc act cgg ggt tcg aga aga tga a	$\begin{array}{l} \textbf{IL-1}\beta\\ \textbf{Sequence}\\ \text{gcogtcacgcctcatctgtttagggcc-NH2} \end{array}$
arrestor probe arrestor probe stacker arrestor probe stacker arrestor invader	probe arrestor invader	probe arrestor probe invader arrestor	probe invader arrestor	Mouse IL-2 Oligo Type Sec probe cag arrestor aga invader gcs	Mouse IFN-y Oligo Type Sequ probe cagto arrestor gaaa probe cagto probe cagto arrestor gaac probe cagto arrestor aacto	Human Oligo Type probe arrestor probe arrestor invader	Human IL-1β Oligo Type Seque

arrestor arrestor invader	ggccctaaacagatgagaggcgt ggccctaaacagatgagaggcgtga caggtcctggaaggaagcacta	511-80-01 511-80-02 685-23-01		All 2'-Ome + 3' amine arrestor for 511-79-01 All 2'-Ome + 3' amine arrestor for 511-79-01	2154 2155 2156
Human IL-6 Oligo Type Seq probe gocg arrestor aggs probe gocg arrestor ggal	Sequence gocgitcacgoctotoctocatigaatoct-NH2 aggattcaatgaggagagaggggggg cogtocacgoctotoctoctatgaatoct-NH2 aggattcaatgaggagagagggggggggggggggggggg	Oligo Number 511-81-01 511-82-01 511-82-02 781-27-02 511-83-01 781-28-01 781-28-01 781-29-02 781-30-01 781-30-02	Secondary Cassette MO4-1/MO4-2/MO4-3 MO4-1/MO4-2/MO4-3 MO4-1/MO4-2/MO4-3 TT-1/TT-2	Gomments 3' amine (based on 685-16-01) All 2'-Ome + 3' amine arrestor for 511-81-01 All 2'-Ome + 3' amine arrestor for 511-81-01 3' amine (511-81-01 with new arm) All 2'-Ome + 3' amine arrestor for 781-27-01 3' amine (based on 685-16-01) All 2'-Ome + 3' amine arrestor for 511-81-01 All 2'-Ome + 3' amine arrestor for 511-80-01 3' amine (511-83-01 with new arm) All 2'-Ome + 3' amine arrestor for 781-28-01 3' amine (781-29-01) All 2'-Ome + 3' amine arrestor for 781-29-01 3' amine (781-29-01) All 2'-Ome + 3' amine arrestor for 781-29-01	2157 2158 2159 2160 2161 2163 2164 2165 2165 2167 2168
Seconda	Secondary Cassettes				
SRT FRET probe	cggaggaagcagttggtgogcotc gttaaNH2 Fcaac(Cy3)gcttcotccg	277-68-05 187-46-01	FV-1		2172 2173
SRT FRET probe	ccaggaagcaagtggtgcgcctcgttt Fcac(Z21)tgcttcgtgg	996-29-01 767-29-02	FV-2		2174 2175
SRT FRET probe	cggaagaagcagttggaggcgtgacggtNH2 Fcaac(Cy3)gcttcctccg	641-60-03 187-46-01	MO4-1		2176 2177
SRT FRET probe	cggaagaagcagttggaggcgtgacg g.c NH2 Fcaac(Cy3)gcttcotcog	562-93-01 187-46-01	MO4-2		2178 2179
SRT FRET probe	ccaggaagcaagtggaggcgtgac ggu Fcac(Z21)tgcttcgtgg	996-29-02 767-29-02	∰MO4-3		2180 2181
SRT FRET probe	cggaggaagcagttggtgatctcggcgggNH2 Fcaac(Cy3)gcttcctccg	562-92-01 187-46-01	П-1		2182 2183
SRT FRET probe	cggaagaagcagttggtgatctcggcggNH2 Fcaac(Cy3)gcttcctccg	685-56-01 187-46-01	Т-2		2184 2185
SRT FRET probe	gctactgagatgaaggagacgtgactgtaNH2 Fcttc(Cy3)tctcagtagc	491-68-02 491-68-01	MO2		2186 2187
SRT FRET probe	ccg agg aag cgg ttg cgt acg act g gt taa- NH2 Fcaac(Cy3)gcttcctccg	458-35-03 187-46-01	MISC-1		2188 2189
SRT FRET probe	ogg agg aag ogg ttg gtg ogg gtg gtt gg PO3 Foaac(Cy3)gcttoctoog	441-31-02 187-46-01	MISC-2		2190 2191

Oligo sequence descriptions: 5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications defined in ()

Set 1 Set 2 Set 3 Set 3 Set 4 Set 5 Set 6 Set 6 Set 7 Set 8 Set 9 Set 10 Set 11 Set 12 Set 13 Set 13	FRET Oligo 187-46-01 187-46-01 307-70-02 303-18-05 303-18-05 303-18-05 187-46-01 767-28-03 767-28-03 767-29-02 1067-20-01 307-70-02	SRT 641-60-02 680-82-03 339-50-03 343-63-07 343-55-01 649-10-01 277-068-05N 833-18-07 777-71-10 996-29-01 996-29-01 996-29-01 562-84-01			
	Oligo # 187-46-01 307-70-02 303-18-05 744-80-03 767-28-03 767-29-02 1067-20-01	FRET Oligos Oligo Sequence Fam-AAC(CY3)GCTTCCTCCG Fam-ATTC(CY3)TCTCAGAC-NH2 Fam-TAAC(CY3)GCTTCCTCCG Fam-TAAC(CY3)GCTTCCTCCG Fam-CAA(Dabcy)TGCTTCCTCCG Fam-CAA(Dabcy)TGCTTCCTCCG Fam-CAC(Z-21)TTCTCAGTGC Fam-CAC(Z-21)TGCTTCGTGG Fam-CAC(Z-21)TGCTTCGTGG			SEQ ID NO 2192 2193 2194 2195 2196 2197 2198
	Oligo # 641-60-02 690-82-03 339-50-03 343-63-07 343-25-01 649-10-01 277-068-05N 833-18-07 777-71-10 996-29-01 307-70-04 491-02-04	SRT Oligo Sequence CGGAGGAAGCAGTTGGAGGCGTGACGGT-NH2 CGGAGGAAGCAGTTGTGGCGGTGACGGTT CAGTCTGAGATGAATGAGCGGTGACGGTT CAGTCTGAGATGAATGAGCGGTGACGGTT CGGAGGAAGCGGTTAGTCTGTCACGTCAT-NH2 CGGAGGAAGCGGTTAGTCTGCCACGTCAT-NH2 CGGAGAAGCAGTTGGTGCGCCTCGTTAA-NH2 CGGAGAAGCAGTTGGTGCGCCTCGTTAA-NH2 CGGAGAAGCAGTTGCGGCGTGCGGCT-NH2 CGGAGAAGCAGTTGCGGCGTGCGGCT-NH2 CCAGGAAGCAGTTGCGGCGTGCGGCT-NH2 CCAGGAAGCAATGATGAGGGCGTGAGG-NH2 CAGTCTGAGAATGAATGATACGCCAGGG-NH2 AGTCTGAGATGAATGATACGCCAGGG-NH2 CGGAGGAAGCAGTTGCGGCGTGGGG-NH2 CGGAGGAAGCAGTGGTGGTGGTGGTGGTGGTATACGCCAGGG-NH2 CGGAGGAAGCGGTTGGTGATACGCCAGGG-NH2 CGGAGGAAGCGGTTGGTGATTCCGGCGG-NH2			SEQ ID NO 2220 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211
Oligo Type	Oligo #	Oligo Sequence	Notes	Position	SEQ ID NO
Human IL-2 Probe Probe Probe Invader Capture Oligo Probe	196-56-01 196-56-02 196-56-03 128-93-02 145-030-05 315-28-01 315-28-01	TCTGTGGCGTATCCTTCTTGGGCATGTAA GTGGCGTATCCTTCTTGGGCATGTAA GCGTATCCTTCTTGGGCATGTAA GAAGATGTTTCAGTTCTGTGG(ddC) AAAAGATACGCCACAGAACACG(BIOTIN-dA)TT TGGCGTATCTTTATTCCATTCAAAAT	ddC = dideoxy C	Splice Junction 2 Splice Junction 1	2213 2214 2215 2216 2217 2218

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Splice Junction 1 2221 2222 2222 2223 Splice Junction 1 2224 2225 Splice Junction 2 2226 2226 Splice Junction 2 2227	Splice Junction 3 2230 2231 2232 Splice Junction 5 2234 2236 Splice Junction 4 2236 2241 2240 2241 Splice Junction 3 2245 Splice Junction 3 2245 Splice Junction 3 2246 Splice Junction 3 2246 Splice Junction 3 2246 Splice Junction 3 2246 Splice Junction 3 2245 Splice Junction 3 2255 Splice Junction 3 2255	Splice Junction 4 2256 2267 Splice Junction 6 2259 Splice Junction 8 2260 2269 Splice Junction 4 2262 Splice Junction 4 2264 2266 Splice Junction 4 2266 Splice Junction 4 2266
		FI = Fluorescien FI = Fluorescien FI = Fluorescien Same as 425-59-01 without Fluorescien Same as 425-80-01 without Fluorescien
AAAAGATACGCCACAGC(BIOTIN-dT)C TGGCGTATCTAATTAATTCCATTC ATCCTGGTGAGTTTGGA AAAGATACGCCACAGC(BIOTIN-dT)C TGGCGTATCTTCCATTCAAAATCATC GTTTGGGATTCTTGTAATTAAA AAAAGATACGCCACAGC(BIOTIN-dT)C GTGGCGTATCCTTGTAATTAAA AAAAGATACGCCACAGC(BIOTIN-dT)C GTGGCGTATCCTTGTGGGCAT GAAGATGTTCAGTGTGTGGGCAT	TGGCGTATCTCTGGGTCATCTTC GGGTGTTGAAGGTCTCAAACATGAA AAAGATACGCCACAGC(BIOTIN-dT)C TGGCGTATCTCTTGATCTTCATGT ACTGCGCTCAGGAGGAGCAATGAA AAAGATACGCCACAGC(BIOTIN-dT)C TGGCGTATCTGATCTGGGTCATCT TGGCGTATCTGATCTG	FI-CTCTCTGGTCTCTCGGAAGA ATTTGGTGGTTAGTGGGGTCTCGCA FI-CTCTCTCGTCTCTGCTGACAATC GCAGTTGGTGGTGCAGAATG GCTGTTGGTGGTGCAGAATG GCTGTACCAGGAAATG GCTGTAGCCGTATTCATTGTCAA FI-CTCTCTCGTCTCTCTCTCGGAAG CATTTGATGTTAGTGGGGTCTCGA CTCTCTCTCTCTCTCTCTGGAAGA ATTTGATGTTAGTGGGGTCTCGCA CTCTCTCTCTCTCTCTCTGGAAGA ATTTGATGTTAGTGGGGTCTCGCA Set 3 CTCTCTCTCTCTCTCTGGAAG CATTTGATGTTAGTGGGGTCTCGA
195-023-01 315-29-01 315-29-02 195-023-01 315-29-03 315-29-04 195-023-01 315-30-07	315-26-01 315-26-02 195-023-01 315-27-02 195-023-01 315-91-02 195-023-01 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 315-92-02 340-33-01 340-33-01 740-01-02 740-01-03 740-01-06 740-01-09	425-59-01 425-59-02 425-60-01 425-60-02 425-61-02 425-81-01 425-80-01 425-87-01 425-87-01 425-87-04 425-87-04
Capture Oligo Probe Invader Capture Oligo Probe Invader Capture Oligo Probe Invader Capture Oligo	Human b-actin Probe Invader Capture Oligo Probe Invader Arrestor Secondary Cassette Probe Stacker Invader Arrestor Secondary Cassette	Mouse GAPDH Probe Invader

2269	Splice Junction 8 2270 2271 2272	Splice Junction 4 2273 2274 2275 2275	Splice Junction 4 2277 2278 2279	2280 2281 2282 2283 2284 2286 2286 2286 2287 2289	2290 2291 2292	2293 2294 2295	2296 2297 2298 2299	2300 2301 2302	2303 2304 2305	2306 2307 2308 2309	2310
	Same as 425-61-01 without Fluorescien Splice	Spiro	Splio		119			Same as 820-35-02 with 3' Amine Same as 820-35-02 with O-Me U for Blocking Same as 820-35-02 with O- Me G for Blocking Same as 820-35-02 with T for Blocking. The T is a			Same as 428-87-01 without Biotin blocking group
CTTCCAGGAGGAGG	Set 3 CTCTCTCTACCAGGAAATG GCTGTAGCCGTATTCATTGTCAA GCTTTGCTGGTAGAGAG	Set 3 ATGACGTGACAGACCTCCTGGAAGAT ATGACGTGACAGACCTCCTGGAAGATG ATGACGTGACAGACCTCCTGGAAGATG CATTTGATGTTAGTGGGGTCTCGA CATCTCCAGGAGGTCTCGA	Set 4 ATGACGTGGCAGACCTCCTGGAAGAT CATTTGATGTTAGTGGGGTCTCGA ATCTTCCAGGAGGTCTGC-NH2 Set 5	CAGTCACGTCTTCAGGTTITG AGGCAGCTCTCAGGTCAGGTGGA FI-CTTC(Cy3)TCTCAGTAGCG CGCTACTGAGATGAAGGAGACGTGACTGTA-NH2 CGCTAATGAGATGAAGGAGACGTGACTGTA-NH2 CGGTAATGAGGTCAGTTTG AGGCAGCTCTTCAGGTTAGA AGGCAGCTCTTCAGGTCAGG	AACGAGGCGCACCTTTACATTTTCTATCGTATCC CCTTCCTTATCCTGGATCTTGGCA GGATACGATAGAAAATGTAAAGGTGCGC	Set 6 AACGAGGCGCACCTITACATTTTCTATCGTATC CCTTCCTTATCCTGGATCTTGGCA GATACGATAGAAATGTAAAGGTGCGC	Set 6 AACGAGGCGCACCTTTACATTTTCTATCG AACGAGGCGCACCTTTACATTTTCTATCGT CCTTCCTTATCCTGGATCTTGGCA ACGATAGAAATGTAAAGGTGCGC	Sel / AACGAGGCGCACCTTTACATTTTCTATCGT-NH2 AACGAGGCGCACCTTTACATTTTCTATCGT <u>U</u> AACGAGGCGCACCTTTACATTTTCTATCGT <u>U</u>	AACGAGGCGCACCTTTACATTTTCTATCGTT CCTTCCTTATCCTGGATCTTGGCA ACGATAGAAAATGTAAAGGTGCGC	Set / GCCGCACGCCGTTTACATTTCTATCGT CCTTCCTTATCCTGGATCTTGGCA ACGATAGAAAATGTAAAGCGGCG ACGATAGAAAATGTAAAGCGGCGT	Set 8 AACGAGGCGCACCTTTACATTTTCTATCGTATCCG CCTTCCTTATCCTGGATCTTGGCA
425-87-05	425-87-03 425-61-02 425-87-06	453-23-01 453-23-03 425-80-02 453-23-04	453-23-02 425-80-02 453-23-05	435-67-04 395-05-07 524-51-01 524-51-03 524-51-04 435-67-04 395-03-07 524-51-02 524-51-05	796-72-01 428-81-02 796-72-02	796-72-03 428-81-02 796-72-04	820-35-01 820-35-02 428-81-02 820-35-03	820-88-01 820-88-02 820-88-03	820-88-04 428-81-02 820-35-03	847-65-01 428-81-02 847-65-02 847-65-03	936-61-01 428-81-02
Arrockor	Secondary Cassette Probe Invader Arrestor	Secondary Cassette Probe Probe Invader Arrestor	Secondary Cassette Probe Invader Arrestor Secondary Cassette	Probe Invader FRET Probe - Secondary Reaction Secondary Reaction Template Secondary Reaction Template Probe Invader FRET Probe - Secondary Reaction Secondary Reaction Template Secondary Reaction Template	Human Ubiquitin Probe Invader Arrestor	Secondary Cassette Probe Invader Arrestor	Secondary Cassette Probe Probe Invader Arrestor	Secondary Cassette Probe Probe Probe	Probe Invader Arrestor	Secondary Cassette Probe Invader Arrestor Arrestor	Secondary Cassette Probe Invader

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Arrestor Secondary Cassette	936-61-02	CGGATACGATAGAAAATGTAAAGGTGCGC Set 7	Same as 428-87-03 without Biotin blocking group	2312
Monocyte Chemotactic Protein 1 (MCP-	<u>d</u> .			
1) Probe Invader Arrestor Secondary Cassette	820-89-01 685-76-01 820-89-02	CCGTCACGCCTCCTTCGGAGTTTGGG GGGTTGTGGAGTGAGTGTTCAAGTA CCCAAACTCCGAAGGAGGCG Set 9	Same as 720-92-01 without the amine	2313 2314 2315
MAGE-3 Probe Invader Stacker Stacker Probe Stacker Probe Invader	1001-01-01 871-18-03 871-18-01 1138-50-01 1138-50-03 1138-50-04 1138-50-05	FI-TTTCTGGAAGCTTTGCT CGATGCCAAAGACCAGGGAAG GAAGATCACAGGAAGAAAIAC GCAGCTICTIGGGA AACGAGGCCACGTTGGGTGA AACGAGGCGCACGTTGGGTGA AACGAGGCGCACGTTGGGTGA CCAGGTGTTTGCGGTGAC CTCCAGGTAGTTTTCTGCAAATC CTCACCAACGTGCGC	Same analyte specific Region as 871-18-02.	2316 2317 2318 2319 2321 2322 2323 2323
Arrestor Stacker Probe Stacker Probe Invader	1138-51-01 1138-51-02 1138-51-03 1138-51-04 1138-51-05	Set 10 AGCITCITGGGAIC AACGAGGCGCACTTGGGTGAGC GCITCITGGGAICC AACGAGGCCACTTGGGTGAGC CAGGTACTTTCTGGTGAGCA CAGGTACTTTCTGGTGAGCA TGCTCACCCAAGTGGGC		2325 2326 2327 2328 2329 2330
Artrestor Secondary Cassette Stacker Probe Invader Arrestor	1138-67-01 1138-67-02 1138-67-03 1138-67-04	Set 11 IGCAGGATCACTGCC AACGAGGCGCACCACATTCATAACA GGCCCTTGGACCCCAA IGTTATGAATTGGTGGTGCGC		2331 2332 2333 2334
Secondary Cassette Stacker Probe Invader Arrestor Secondary Cassette	1138-67-05 1138-67-06 1138-67-07 1138-67-08	Set 11 CAIGCAGGAICACIGC AACGAGGCGCACACACATTCATAA AACGAGGCCACCACACACAATTCATAA AGGCCCTTGGACCCA ITAIGAAIIGGIGIGCGC Set 11		2335 2336 2337 2338
Human Oncostatin M Probe Invader Arrestor Arrestor Arrestor	339-30-02 264-42-03 374-32-01 374-32-02 374-32-03	CCTGGCGTATCTAGGGCTCCA GTGTTCAGGTTTTGGAGGCGGATAA CTTGGAGCCCTAGATAC-NH2 CTTGGAGCCCTAGATACG-NH2 CTTGGAGCCCTAGATACG-NH2		2339 2340 2341 2342 2343
Secondary Cassette Probe Invader Stacker Arrestor	524-39-01 395-05-07 435-40-02 369-47-07	Set 12 CAGTCACGTCTTCAGGTTTTG-NH2 AGGCAGCTCTCAGGTCAGGTGTGA GAGACCTGAAGGCCTCCA CAAAACCTGAAGAGACA-NH2	Same as 435-67-04 with 3' Amine	2344 2345 2346 2347
Secondary Cassette Probe Arrestor Probe Probe Invader	1088-74-01 1088-74-02 1088-74-03 1088-74-04 603-75-03	Ser 13 AACGAGGCGCACCTCTGTGTG CACACAGGGGTGCGC AACGAGGCGCACCTCTGTGTG-NH2 AACGAGGCGCACCTTGTGTG-HEX AACGAGGCGACCTTGTGTG-HEX GCAAGGACCAGACTGAGCAGCTA	HEX = Hexanediol	2348 2349 2350 2351 2352

Stacker	752-01-05	AGCAGTACCCCCATG	2353
Arrestor	641-62-04	<u>GAGAGAGAGAGCG</u> -NH2	4334
Secondary Cassette		Set 10	2355
Probe	1138-49-02	AACGAGGCCACCTTCTGGAG-NH2	2356
Stacker	1138-49-01	CIGGCCAAGGAG	2357
Invader	1138-49-03	GTCCTGCATGAGATCTGTCTGA	2358
Arrestor	1138-49-04	CTCCAGAAGGTGCGC	0007
Secondary Cassette		Set 11	0400
Probe	1138-49-06	AACGAGGCGCACTCTGCTTCT-NH2	5555
Stacker	1138-49-05	GGAGCTGGCCAA	2360
lovader	1138-49-07	TGGTGTCCTGCATGAGATCTGA	2361
Arrestor	1138-49-08	TCCAGAAGCAGAGTGCGC	2362
Secondary Cassette		Set 11	
Broke	1138-40-10	AACGAGGCGCACCATGAGATCT-NH2	2363
PICOE States	1138-49-09	GTCTGCTGGA	2364
otacker	4430 40-44	ANATOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOT	2365
invader	1130-49-11	0.001010000000000000000000000000000000	2366
Arrestor	71-64-0011	0-1-44	
Secondary Cassette		10000	2367
Stacker	1163-01-01	LIGHTCH ACCORDING TO THE PROPERTY OF THE PROPE	2368
Probe	1163-01-02	AACGAGGCACI I COGACON TO THE CONTROL OF THE CONTROL	2369
Invader	1163-01-03	TCCTGCATGAGATCTGCCA	2370
Arrestor	1163-01-04	GCTCCAGAAGTGCGC	770
Secondary Cassette		Set 11	7000
Stacker	1163-01-05	GGCCAAGGAGCAC	1767
Probe	1163-01-06	AACGAGGCGCACTCTGGAGCT-NH2	2372
Invader	1163-01-07	CCTGCATGAGATCTGTCTGCTA	23/3
Arrestor	1163-01-08	AGCTCCAGAGTGCGC	23/4
Secondary Cassette		Set 11	
Stacker	1163-01-09	GCCAGGGGCACG	2375
Broko	1163-01-10	AACGAGGGGCGCCTGGAGCTC-NH2	2376
Tione Tione	1163-01-10	CCTGCATGAGATCTGTCTA	2377
Illyadel	116501-11	CACCOLOR	2378
Arrestor	71-10-6011		
Secondary Cassette		Ver 1.	
0			
84101	000	COCCACATCACCACCACCACCACCACCACCACCACCACCACC	2379
Probe.	000-01-000	\(\rightarrow\rightar	2380
Invader	Z0-1.0-889		2381
Arrestor	688-51-03	AGACCG CG11GGCG1GA1C	} }
Secondary Cassette		Set 14	2382
Probe	688-51-04	CGCCGGGGGICACCICACACCAIAAAAGCCA	2383
Invader	688-51-05	CGGGAGACTGAGGAATACGTCACCA	2384
Arrestor	688-51-06	TGGCTTTATGGTGTTGAGGTGATC	1004
Secondary Cassette		Set 14	
MAHZ	600 22 03	CCGTCACGCTCCGAACTGCCCTAG	2385
Probe	690-32-04	GTATAATAGTCCCGACGATCAAAGAGGC	2386
Stocker	709-52-01	GGTCCTTGGGYAGGG	2387
Arrestor	690-32-05	GCGGAGGCTTGACGGGATC	2388
Secondary Cassette	· · · · · · · · · · · · · · · · · · ·	Set 1	

Secondary Cassette

SEQ ID NO

2389 2390 2391

bold indicates 2' O methyl base

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5'-CTCTCTCGTCCCAGGGCGTCGTCGG-PO4-3' 5'-CTGTCACACACGTCGGTGCTGA-3' 5'-AAAAAGGAGACGAGAGAGTG-3' Leukocyte-associated molecule-1 alpha subunit, human (h-LFA1) G4731 Probe Set

for the remainder of the oligo sets on this list, the fret/target secondary sets are one of the following 11:

FRET/TARGET SETS

	FRET/TAI	FRET/TARGET SETS			
		FRET	TARGET		
	set 1	307-70-03	502-93-01		
	set 2	307-70-03	502-93-02		
	set 3	187-46-01	641-60-02		
	set 4	187-46-01	277-68-05		
	set 5	187-46-01	685-56-01		
	set 6	187-46-01	641-60-03		
	set 7	187-46-01	649-10-01		
	set 8	680-17-02	782-70-02		
	set 9	187-46-01	277-68-06		
	set 10	187-46-01	491-02-02		
	set 11	307-70-03	761-40-02		
	FRETS 307-70-03	m		5'-Fam-ATTC(CY3)TCTCAGACT-NH2-3'	
	187-46-0	_		5'-Fam-CAAC (CY3)GCTTCCTCG-3'	•
	680-17-03	2		5'-Fam-CGCT (CY3)TCTCGCTCGC-3'	
	TARGET	တ			
	502-93-01	_		5'-CAGTCTGAGA I GAA I GAA I GAGAGAGAGAG I -INH 2-3	
	502-93-0	2		5'-CAGTCTGAGAIGAAIGAGGGGGGGGGGI-NAZ-3	
	641-60-0	2		5'-CGGAGGAAGCAGIIGGAGGCGIGACGGI-NHZ-3	
	277-68-05	5		5'-CGGAGGAAGCAGTTGGTGCGCCTCGTTAA-PU4-3	
	685-56-01	Ψ-		5'-GCGGAAGAAGCGGIIGGIGAICICGGCGG-NHZ-3	
	641-60-0	ဗ		5'-CGGAAGAAGCAGIIGAGGCGIGACGGI-NHZ-3	
(649-10-0	_		5'-CGGAAGAAGCAGIIGGIGCGCCICGIIAA-NHz-3	
3	782-70-0	2		5'-GCGAGAGACACCGCAAACCIGCCGIIC-3	

2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404

> 641-60-03 649-10-01 649-10-01 782-70-02 277-68-06 491-02-02

5'-CGGAAGAAGCAGTTGGAGACGTGACTGTGG-NH2-3'

5'-CGGAGGAAGCAGTTGTCCGCGAAGATG-3'

COSELECTE CERTALI

	761-40-02	5'-GGAGTGAGACAGCGGCCGTTCT-3'	2405
	adipocyte lipid binding protein, mouse (m-aP2) C289 Probe Set p a a a p p p p p p p p p p a a a a a	FRET/TARGET SET 1 5'-CGCCATCTAGGGTTATGATGCTA-3' 5'-CTCTCTCGTCCTTCACCTTCCTGTCG-NH2-3' 3'-PO4-AGCAGGAAGTGGAAGGACGC-5' 3'-PO4-AGGAGGAGGACAGC-5' 3'-PO4-AGGAGGAGGAGGACAGC-5' 5'-AACGAGGCCACCTTCACCTTCCTGTCG-NH2-3; 5'-AACGAGGCCACCTTCACCTTCCTGTCG-NH2-3; 5'-AACGAGGCCACCTTCACCTTCCTGTCG-NH2-3; 5'-CATCTTCGCGAAGTGGAAGGACAGC-5' 3'-PO4-CCCGCGTGAAGTGGAAGGACAGC-5' 3'-PO4-GCCTGAAGTGGAAGGACAGC-5' 5'-CATCTTCCCCGTCCTTCCTGTCG-NH2 3'-PO4-GCCCTGAAGTGGAAGGACAGC-5' 5'-CTTGCTCCCCGTGCTTCACCTTCCTGTCG-NH2 5'-CTTGCTCCCCGTGCTTCACCTTCCTGTCG-NH2 5'-CTTGCTCCCCGTGCTTCACCTTCCTGTCG-NH2 5'-PO4-GGGCACAGGACAGC-5' 3'-PO4-GGGCACGAAGTGGAAGGACAGC-5' 3'-PO4-AGGGCACGAAGTGGAAGGACAGC-5' 3'-PO4-AGGGCACGAAGTGGAAGGACAGC-5' 3'-PO4-AGGGCACGAAGTGGAAGGACAGC-5'	2406 2407 2407 2408 2410 2411 2411 2413 2415 2419 2420
	G392 Probe Set p I	FRET/TARGET SET 1 5'-CTCTCGTCTCCACATTCCACCAG-NH2-3' 5'-TTGTGTAAGTCACGCCTTTCATAAT-3'	2422 2423
	rev-ErbA, mouse (m-revErbA C155 Probe Set p p	FRET/TARGET SET 4 5'-AACGAGGCACGAAGCAGGGTAATGAATCT-NH2-3' 5'-CCACTCCTGAAGGCTCCGCAGTC-3'	2424 2425
	Carnitine palmitolytransferase, mouse (m-CPT-1) T352 Probe Set p I	FRET/TARGET SET 2 5'-CTCTCTCGTCTCAATGCCTGTCGCC-NH2-3' 5'-GCTTCAGGGTTTGTCGGAAGAAGAAC-3'	2426 2427
13	C851 Probe Set p i	FRET/TARGET SET 2 5'-CTCTCTCGTCTCGTTTGCGGCGATACAT-NH2-3' 5'-CGGCTTGATCTCTTCACGGTCCAC-3'	2428 2429
5/145	Carnitine palmitolytransferase, human (h-CPT-1)		

U744 Probe set p l a s	FRET/TARGET SET 2 5'-CTCTCTCGTCTCAACTTCAAATACCACTGTAATCT-NH2-3' 5'-CTCACGTAATTTGTAGCCCACCAGGAGTTTC-3' 3'-NH2-GCAGAGTTGAAGTTTATGGTGACATTAGA-5' 5'- TGGTCCAAGACCGACAAATCTTGAG -3'	2430 2431 2432 2433
A456 Probe Set p i	FRET/TARGET SET 10 5'-CAGTCACGTCTCTTCAGGGAGTAGCGCA-NH2-3' 5'-CCCGTGGTAGGAGAGCAGCACTA-3' 3'-NH2- GCAGAGAGTCCCTCATCGCGT -5'	2434 2435 2436
C759 Probe Set p i a s	FRET/TARGET SET 2 5'-CTCTCTCGTCTCGCCCACCAGGATT-NH2 5'-CTCCCACCAGTCGCTCACGTAATTTGTAA-3' 5'-AATCCTGGTGGGCGAGACG-B-3' 5'-TTAACTTCAAATACCACTGTAATCTTGGTCCAAGACCG-3'	2437 2438 2439 2440
G329 Probe Set p i a	FRET/TARGET SET 4 5'-ACCGAGGCGCACCAATTATTCCTAACG-b-3' 5'-GCCGTTTCCAGAGTCCGATTGATTTTTGA-3' 3'-(biotin)- GCGGTGGTTAATAAGGATTGC -5'	2441 2442 2443
C1763 Probe Set p i a	FRET/TARGET SET 9 5'-CATCTTCGCGGAGACATTTCTTGATGATTCCTT-3' 5'-AAAGGTGTCTGGGCTCGTGCT-3' 3'-(bioitn)- GCCTCTGTAAAGAACTACTAAGGAA -5'	2444 2445 2446
Phosphatidylinositol-3-phosphate p110 _, human (h-PI3Kp110_ FRI G1045 Probe Set (FV Arm) p f l 3'-A	FRET/TARGET SET 4 5'-AACGAGGCGCACCAGTTTCCTCTGTG-NH2-3' 5'-GACCAGCCTGACATGAACTTTTAC-3' 3'-NH2- CGCGTGGTCAAAGGAGACAC -5'	2447 2448 2449
C1521 Probe Set p i a	FRET/TARGET SET 2 5'-CTCTCTCGTCTCGGGAGGGTAATAATAAGG-NH2-3' 5'-GCTGCCTTTTCAATAATCTTATCGAAC-3' 3'NH2- AGCAGAGCCCTCCCATTATTATTCC -5'	2450 2451 2452
C2667 Probe Set p i	FRET/TARGET SET 2 5'-CTCTCTCGTCTCGTTGTATTCTTTAAGCCAG-NH2-3' 5'-CGGTCCAGGTCATCCCCAGAC-3'	2453 2454

O	3'NH2-AGCAGAGCAACATAAGAAATTCGGTC-5'	2455
G537 Probe Set p i	FRET/TARGET SET 2 5'-CTCTCTCGTCTCTCTGGTGGATATGTTTG-NH2-3' 5'-CTAAGTTTTCAGGATGGATGGTTCATGC-3' 3'NH2 -AGCAGAGAGACCACCTATACAAAC -5'	2456 2457 2458
T3192 Probe Set p i a	FRET/TARGET SET 2 5'-CTCTCTCGTCTCAACTGTGGGGC-NH2-3' 5'-TTAAGATCTGTAGTCTTTCCGAAC-3' 3'NH2- AGCAGAGTTCACACCCG -5'	2459 2460 2461
Cartilage-derived morphogenic protein 1, human (h-CDMP1) A831 Probe Set P p I 3	1) FRET/TARGET SET 6 5'-CGTCACGCCTCCTGCTCCC-(biotin)-3' 5'-AGCCTCCAACTTCACGCTGT-3' 5'- GGGAGGCAACAGGAGGCG -(biotin)-3'	2462 2463 2464
A1691 Probe Set p I a	FRET/TARGET SET 5 5'-CCGCCGAGATCACTGAAGAGGATGCTGATGG-(biotin)-3' 5'-ACACCACGTTGTTGGCAGAGTCAAG-3' 5'- CCATCAGCATCCTTCAGTGATCTCGG -(biotin)-3'	2465 2466 2467
b-actin, rat (r-bACT) C1671 Probe Set (longer) p l a s	FRET/TARGET SET 6 5'-CCGTCACGCCTCGCCTTAGGGTTCA-NH2-3' 5'-TCTGGGTCATCTTTTCACGGTTGA-3' 3'- GCGGAGCGGAATCCCAAGT -5' 5'- GAGGGGCCTCGGTGAGC -3'	2468 2469 2470 2471
Bile Salt port Pump, rat (r-BSEP) p p l	FRET/TARGET SET 5 5'-CCGCCGAGATCACGAGTTCTTGCCTTTC-(biotin)-3' 5'-CCGCCGAGATCACGAGTTCTTGCCTTTC-NH3-3' 5'-TTCACACACGCTTTTCCTGGTATCTCC-3' 3'-(biotin)- CTAGTGCTCAAGAACGGAAAG -5'	2472 2473 2474 2475
G1288 Probe Set p I a	FRET/TARGET SET 2 5'-CTCTCTCGTCTCCCAGAAGGCCAGT-(biotin)-3' 5'-TTCTTCATCTAGGACAAGTGTGGAACCATAA-3' 5'-ACTGGCCTTCTGGGAGGG-(biotin)-3'	2476 2477 2478

A790 Probe Set p I	FRET/TARGET SET 6 5'-CCGTCACGCCTCTTTCCTCATTCTCCT-(biotin)-3' 5'-CCGAATTTCCATTCTCATTATTCTCCGAAGTAAATC-3' 5'-AGGAGAATGAGGAAGGGCG-(biotin)-3'	2479 2480 2481
Nitric Oxide Synthase 2A, human (h-iNOS2) A3418 Probe Set p I a	FRET/TARGET SET 6 5'-CCGTCACGCCTCTGTCTTTCGC-(biotin)-3' 5'-GCTGCACCGCCACCCC-3' 5'- GCGAAGAAGACAGAGGCG- (biotin)-3'	2482 2483 2484
Neutral Carboxy Ester Hydrolase, human (h-NCEH) A1221 Probe Set p p i	FRET/TARGET SET 7 5'-AACGAGGCGCACTCTTCTTATTCTCCTG-B-3' 5'-AACGAGGCGCACTCTTTTTTTTCTCCTG-NH2-3' 5'-GTCTCAAAGTCCACCACAGTCTC-3' 5'- CAGGAGAATAAGAAGAGGCGC- (biotin)-3'	2485 2486 2487 2488
A1221 Probe Set p p i a	FRET/TARGET SET 6 5'-CCGTCACGCCTCTTCTTATTCTCC-3' 5'-CCGTCACGCCTCTTCTTATTCTCC-NH2-3' 5'-GTCTCAAAGTCCACAGTCTC-3' 3'- GCGAGAGAATAAGAGG -5' 5'- TGGGATGGGTCCTGGGC -3'	2489 2490 2491 2492 2493
C1309. Probe Set p i a	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGGCACTCTTGGCATT-NH2-3' 5'- CAGGTAGGCG TAGGTCTTGA-3' 3'-NH2- CGTCCAAACCGTGAGAACCGTAA -5' 5'- GGCTCTGTGCTGGGCTA -NH2-3'	2494 2495 2496 2497
Peroxisomal Proliferation Activator Protein Receptor alpha, human (h-PPAR_) G1480 Probe Set p 5'-CGTCACGCC I 5'-CGGTGACGCC a	, human (h-PPAR_) FRET/TARGET SET 6 5'-CCGTCACGCTCCCGACTCCGTCT-(biotin)-3' 5'-CGGGTGCAGCGCAGCATT-3' 5'-AGACGGAGTGCGGAGGGG-(biotin)-3'	2498 2499 2500
A1044 Probe Set p i a	FRET/TARGET SET 6 5'-CCGTCACGCCTCTGTCACTTGATCGTTCT-(biotin)-3' 5'-TGGCCTCATAAACTCCGTATTTTAGCAAG-3' 5'-AGAACGATCAAGTGACAGGCG-(biotin)-3'	2501 2502 2503

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C 1311 Probe Set p i a	FRET/TARGET SET 6 5'-CGGCGAGATCACGTGTCCTACGTTTAGAAG-(biotin)-3' 5'-CACATGTACAATACCCTCCTGCATTTTTTCAATC-3' 5'-CTTCTAAACGTAGGACACGTGATCTCGG-(biotin)-3'	2504 2505 2506
Peroxisomal Proliferation Activator Protein Receptor beta, human (h-PPAR_A595 Probe set 6B. Designed truncated probe and stackers to reduce temperature p 5-CCGTCACG(i 3'-NH2-GCGGACT(s	numan (h-PPAR_) FRET/TARGET SET 6 Jerature 5'-CCGTCACGCCTCTTCTGAATCTTGC-3' 5'-CTGGCACTTGTTGCGTTCTA-3' 3'-NH2-GCGAGAGAGAGACTTAGAACG-5' 5'-AGCTGCCTCACACTTCTCTGT-3'	2507 2508 2509 2510
	FRET/TARGET SET 6	
6C. Design for new INVADER assay with 50% 2'-Me. p i a	5'-CCGTCACGCCTCTTCTGAATCTTG-NH2-3' 5'-CTGGCACTTGTTGCGGTTCTA-3' 3'-NH2-GCGGAGAGAGACTTAGAAC-5' 5'-CAGCTGCGCTCACACTTCTCGT-NH2-3'	2511 2512 2513 2514
6D. Truncate probe. p i s	FRET/TARGET SET 6 5'-CCGTCACGCCTCTCTTCTGAATCTT-NH2-3' 5'- CCTGGCACTTGT TGCGGTTCTA-3' 5'- GCAGCTGCGCTCACACTTCTCGT -NH2-3'	2515 2516 2517
C891 Probe Set p i a	FRET/TARGET SET 7 5-AACGAGGCGCACGGTAGGCATTGTAGA-3' 5-CCTTCTTTTTGGTCATGTTGAAGTTTTTCAC-3' 3'-CCGTGCCATCGTAACATCT-5' 5'-TGTGCTTGGAGAGGCCTTCA-3'	2518 2519 2520 2521
Substance P, rat (r-SubP) C344 Probe Set p l a	FRET/TARGET SET 6 5'-CCGTCACGCCTCGCCACTTGTTTTTCA-NH2-3' 5'-CCATGCCCATAAAGAGCCTTTAACAGGA-3' 3'-NH2- GCGGAGCGGTGAACAAAAGT -5' NO STACKER	2522 2523 2524
A396 Probe Set	FRET/TARGET SET 6 5'-CCGTCACGCCTCTTTATGCCTTTTGTGA-NH2-3'	2525

o o	5'-TGCCCATTAGTCCAACAAAGGAATCTGTA-3' 3'-GCGGAGAAATACGGAAAACACT-5' 5'-GAGATCTGACCATGCCCATAAAGAGCC-NH2-3'	2526 2527 2528
C752 Probe Set p i a	FRET/TARGET SET 7 5'-AACGAGGCGCACGCTGGCAAACTTGT-NH2-3' 5'-CCTTTCTGTCTTTGGAGACTTGCATCA-3' 3'-NH2- CGCGTGCGACCGTTTGAACA -5' 5'-ACAACTCCATCAACACTGTGCTTTGCTG-NH2-3'	2529 2530 2531 2532
Hepatic Lipase, human (h-LIPC) A830 Probe Set p I I a	FRET/TARGET SET 7 5'-AACGAGGCGCACTCTAGGAAGTGGCA-NH2-3' 5'- GTGCTGGGCAATATGTC TGTAGAGCG-3' 3'-NH2- CGCGTGAGATCCTTCACCGT -5' 5'- GCCAGGCTGGAAGGAGC -NH2-3'	2533 2534 2535 2536
C1154 Probe Set p i a	FRET/TARGET SET 5 5-CCGCCGAGATCACCGTCTCAGTTTGGT-NH2-3' 5-CGAGTAGTGACATGGTAAAAGTTGTTTGTATTGGCT-3' 3-NH2 -CTCTAGTGGCAGAGTCAAACCA -5'	2537 2538 2539
Hepatic Lipase, rat (r-LIPC) G357 Probe Set p i a s	FRET/TARGET SET 5 5'-CCGCCGAGATCACCACGTTCACGGGTT-NH2-3' 5'- GGGAGATCCAGTCC ACTAATCCA-3' 3'-NH2- TCTAGTGGTGCAAGTGCCCAA -5' 5'- GGGACTGTGGGACTTCAGG -NH2-3'	2540 2541 2542 2543
C1167 Probe Set p i a s	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGGGGAATTTTCTTTATTTCTT-NH2-3' 5'-ATTCCTTCGCCCAGGGTGATG-3' 3'-NH2-GTCCAAACCCTTAAAAGAAATAAAGAA-5' 5'-CTTTTGTCCCCAGCGTGT-NH2-3'	2544 2545 2546 2547
Metabotropic Glutamate Receptor 2, rat (r-mGluR2) C1403 Probe Set p I a s	FRET/TARGET SET 7 5'-AACGAGGCGCACGGTGGTGTTGGGA-NH2-3' 5'-GCCTCATAGCATCGCAGAGGTGT-3' 3'-NH2-CGCGTGCCACAAACCCT-5' 5'-CAGAGGCACGGTGCATGT-NH2-3'	2548 2549 2550 2551

G-protein coupled receptor 2, rat (r-ETBR-LP2) A1629 Probe set p I a a	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGTCAGCAGACCGC-NH2-3' 5'- GAGGCCAAAGTGAGACCATG TGAAAGAAA-3' 3'-NH2- CGTCCAAACAGTCGTCTGGCG- 5' 5'- CATGGATCGCATGGCCC- NH2-3'	2552 2553 2554 2555
i kappa b alpha, human (h-MAD3) C542 Probe Set p I I	FRET/TARGET SET 7 5'-AACGAGGCGCACGGTGTAGGGGGG-(biotin)-3' 5'-GCCCTGCTCACAGGCAAT-3' 5'-CCCCCTACACCGTGCGC-(biotin)-3'	2556 2557 2558
C363 Probe Set P I A	FRET/TARGET SET 6 5'-CCGTCACGCCTCGTCAGTGCCTTTTC-(biotin)-3' 5'-CACCTGGCGGATCACTTCCATGT 5'- GAAAAGGCACTGACGAGGCG -(biotin)-3'	2559 2560 2561
G953 Probe Set P I A	FRET/TARGET SET 6 5'-CCGTCACGCTCCTCATCT-(biotin)-3' 5'-ACTCTGACTCTGTGTCATAGCTCTT 5'-AGTGAGGATGAGGGGGGG(biotin)-3'	2562 2563 2564
C923 Probe Set P I A S	FRET/TARGET SET 7 5'-AACGAGGCGCACGGTTTTCTAGTGTCA-NH2-3' 5'-CTCACTCTCTGGCAGCATCTGAAT-3' 3'-NH2-CGCGTGCCAAAAGATCACAGT-5' 5'-GCTGGCCCAGCTGC-NH2-3'	2565 2566 2567 2568
Lecithin cholesterol acyltransferase, human (h-LCAT) C821 Probe Set (truncated Probe Design) p I a s	FRET/TARGET SET 5 5'-CCGCCGAGATCACGGTTATGCGCTG-NH2-3' 5'-CCAGGGGGGGGGGTC-3' 3'-NH2-TCTAGTGCCATACGCGACG-5' 5'-CTCCTTTTCAGCTTGATGCTGG-NH2-3'	2569 2570 2571 2572
C827 Probe Design p I a	FRET/TARGET SET 8 5-GAACGGCAGGTTTGGGTGGTTATGCG-NH2-3' 5- AGAGGGAAACATC CAGGGGAG-3' 3-NH2- CGTCCAAACCCACCACTACGC -5'	2573 2574 2575

2576 2577 2578	2579 2580 2581 2582	2583 2584 2585 2586 2587 2588	2589 2590 2591 2592	2593 2594 2595 2596	2597 2598 2599 2600
FRET/TARGET SET 5 5-CCGCCGAGATCACGAGATGCTGTATCCC-NH2-3' 5-GGTCAGGTTGCTGAAGACCATGTTG-3' 3-NH2- TCTAGTGCTCTACGACATAGGG -5'	FRET/TARGET SET 6 5'-CCGTCACGCTCTGAGCACATCCACG-NH2-3' 5'-ACATAGTCTCTGCCGCTGTCTTA-3' 3'-NH2-GCGGAGACTCGTGTAGGTGC-5' 5'-TACACAGGCCAGGTCCTT-NH2-3'	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGTCCCAAGGCGG-NH2-3' 5'-GAACGGCAGGTTTAGGTTTAGCTGTTTA-3' 5'-GTCAAGGATCTTTAGGTTTAGCTGTTTA-3' 5'-GTCCAGTTGTCAAGGATCTTTAGGTTTAGGTTTA-3' 3'-NH2-GTCCAAACAGGGTTCGCC-5' 5'-AGCCTTCAAACTGGGACACATAGTTC-NH2-3'	FRET/TARGET SET 5 5'-CCGCCGAGATCACTTCTGTCTCCTT-NH2-3' 5'-CTCCTGCCTCAGGCCG-3' 3'-NH2 -TCTAGTGGAGACAGAGAA -5' 5'- TTCCAGGTTATCCCAGAACTCC -NH2-3'	FRET/TARGET SET 11 5:-AGAACGGCAGTCTTTCTGTTTTCCCAAGG-NH2-3' 5'-CCAGTTGTCAAGGAGCTTTAGGTTAGT-3' 3'-NH2-CGTCAGAAAGACAAAAGGGTTCC-5' 5'-CGGAGCCTTCAAACGGACATAGGTTCC-3'	FRET/TARGET SET 11 5AGAACGGCAGTCTTTAGAATAGGCGATCTGT-NH2-3' 5'-CACTCAGGTCTATGCTTGTGGCT-3' 3'-NH2-GTCAGAATCTTATCCGCTAGACA-5' 5'-GGGATGTCGAACAGCTGGAGAAGATTCT-NH2-3'
C1217 Probe Design p I	Apolipoprotein A-1, human (h-ApoA1) A177 Probe Set p I	A227 Probe Set (titrate length of 2'-O-Me in Invader) p l i i A s	G350 Probe Set p l	G233 Probe Set p I a	Metabotropic Glutamate Receptor 1, rat (r-mGluR1) T934 Probe Set P I a s Ubiquitin, human (h-UBIQ)

G119 Probe Set (MO4 Arm) p l	FRET/TARGET SET 6 5'-CCGTCACGCTCCTTTACATTTTCTATCGTATCCG-(biotin)-3' 5'-CCTTCCTTATCCTGGATCTTGGCA-3' 3'-(biotin)-GCGGAGGAATGTAAAAGATAGCATAGGC-5'	2601 2602 2603
G119 Probe Set p i	FRET/TARGET SET 5 5'-CGCCGAGATCACCTTTACATTTTCTATCGTATCCG-(biotin)-3' 5'-CCTTCCTTATCCTGGATCTTGGCA-3' 3'-(biotin)-CTAGTGGAATGTAAAAGATAGCATAGCA-5'	2604 2605 2606
G131 Probe Set p I	FRET/TARGET SET 9 5'-CATCTTCGCGGACTGGATCTTGGCC-(biotin)-3' 5'-GCTGATCAGGAGGAATTCCTTCTTATCT-3' 3'-(biotin)-GCCTGACCTAGAACCGG-5'	2607 2608 2609
Scanned G119 region (ELISA format (No Arrestors) p p p p p i i i i	5'-CTCTCTCGTCTTTACATTTTCTATCGTATCCGA-NH2-3' 5'-CTCTCTCGTCTTTACATTTTCTATCGTATCCG-NH2-3' 5'-CTCTCTCGTCTCCTTTACATTTTCTATCGTATCCG-NH2-3' 5'-CTCTCTCGTCTCCCTTTACATTTTCTATCGTATC-NH2-3' 5'-CTCTCTCGTCTCCCTTTACATTTTCTATCG-NH2-3' 5'-GGAATTCCTTCCTTATCCTGGATCTTGGC-3' 5'-GGAATTCCTTATCCTGGATCTTGGC-3' 5'-CCTTCCTTATCCTGGATCTTGGCA-3' 5'-CCTTATCCTGGATCTTGGCCA-3' 5'-TCCTTATCCTGGATCTTGGCCA-3'	2610 2611 2612 2613 2614 2615 2616 2617 2619
Ubiquitin, mouse (m-UBIQ) G294 Probe Set p I I	FRET/TARGET SET 7 5'-CCGTCACGCCTCCTTCTGGATGTTGTA-(biotin)-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-(biotin)-GCGGAGGGAAGACCTACAACAT-5'	2620 2621 2622
G294 Probe Set p I	FRET/TARGET SET 5 5'-CGCCGAGATCACCCTTCTGGATGTTGTA-(biotin)-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-(biotin)-CTAGTGGGAAGACCTACAACAT-5'	2623 2624 2625
G294 Probe Set p	FRET/TARGET SET 6 5'-CCGTCACGCCTCCCTTCTGGATGTTGTAAT-NH2-3' 5'-CCAGGTGCAGGGTTGACTA-3'	2626 2627

Q	3'-NH2-GCGGAGGGAAGACCTACAACATTA-5'	2628
G294 Probe Set p i	FRET/TARGET SET 6 5'-CCGTCACGCCTCCCTTCTGGATGTTGTAATC-NH2-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-NH2- GCGGAGGGAAGACCTACAACATTAG -3'	2629 2630 2631
T514 Probe Set p i a	FRET/TARGET SET 7 5'-AACGAGGCGCACATGTTGTAATCAGAGGGG-NH2-3' 5'-TGCAGGGTTGACTCTTTCTGGA-3' 3'-NH2-CGCGTGTACAACATTAGTCTCTCCC-5'	2632 2633 2634
G750 Probe Set p I	FRET/TARGET SET 9 5'-CATCTTCGCGGACCTTCTGGATGTTGTA-NH2-3' 5'-GGACCAGGTGCAGGGTTGACTT-3' 3'-NH2-GCCTGGAAGACCTACAACAT-5'	2635 2636 2637
G185 Probe Set p I a	FRET/TARGET SET 9 5'-CATCTTCGCGGACTTCACGTTCTCGATGG-NH2-3' 5'-CCCTCTTTATCCTGGATCTTGGCA-3' 3'-NH2-GCGCCTGAAGTGCAAGAGCTACC-5'	2638 2639 2640

FIGURE 48

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